

Federal Funding Handbook for the Marine Transportation System

Sixth Edition
March 2024



Prepared by the U.S. Committee on the Marine Transportation System
Supply Chain and Infrastructure Integrated Action Team

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Executive Summary

The United States (U.S.) Marine Transportation System (MTS) is an integral system by which goods enter and leave the U.S. In 2020, waterborne shipping carried more tonnage (nearly 1.5 billion short tons) and value (more than \$1.5 trillion) in U.S. trade than any other mode of transportation (Bureau of Transportation Statistics, 2021). Nearly 69 percent [by tonnage] of all the goods traded by the U.S. are transported via waterways, predominantly by seagoing vessels. In terms of value, ships transport over 41 percent of the total value of goods traded by the U.S. (Statista, 2023). The U.S. MTS touches virtually every aspect of American life—from the clothes we wear, to the cars and trucks we drive, to the food we eat, to the oil and natural gas used to heat and cool our homes.

The U.S. Committee on the Marine Transportation System (CMTS) was authorized on December 20, 2012, in the *Coast Guard and Maritime Transportation Act of 2012* (Pub. L. No. 112-213.) The CMTS is a Cabinet-level, interagency maritime policy coordinating committee initially established by Presidential Directive on December 17, 2004. It consists of representatives from Federal departments, agencies, and offices with jurisdiction and interests in the MTS. The CMTS regularly updates a directory of federal funding opportunities related to the MTS called the Federal Funding Handbook for the Marine Transportation System (Handbook). This Sixth Edition of the Handbook is publicly available and may be accessed from the CMTS website, www.CMTS.gov or the [National Transportation Library](#).

The U.S. Census Bureau projects the U.S. population will reach a high of nearly 370 million people in 2080 (U.S. Census Bureau, 2023). The demand for goods for this increasing population coupled with increasing movements of energy resources could lead to a significant increase in demand for MTS capacity. In the 2015 report, *U.S. Container Port Congestion and Related International Supply Chain Issues*, the Federal Maritime Commission noted that, “In many ways, the elimination of congestion is today’s most critical and relevant trade-related issue” (Federal Maritime Commission, 2015).

In recognition of the importance of funding investments supporting the MTS, the Bipartisan Infrastructure Law (The Infrastructure Investment and Jobs Act (IIJA)) provides a once-in-a-generation investment to strengthen our nation’s infrastructure and competitiveness. The Act invests \$17 billion in port infrastructure and waterways to address repair and maintenance backlogs, reduce congestion and emissions near ports, and drive electrification and other low-carbon technologies. This investment in modern, resilient, and sustainable port infrastructure will strengthen the maritime supply chain and support U.S. competitiveness by removing bottlenecks and expediting commerce while reducing the environmental impact of port operations on neighboring communities.

The Sixth Edition of the Handbook provides a compilation of 95 current and 20 archived federal funding programs related to MTS infrastructure. These programs span a range of federal departments and agencies with a variety of interests in the MTS and are designed to stimulate the economy and benefit the public. Funding opportunities within these programs may be provided as grants, loans, loan guarantees, or as one of several other types of financial support. Several federal assistance resource centers provide support to help potential applicants navigate the different kinds of funding opportunities, including: The Build

America Bureau (U.S. Department of Transportation (DOT)), the Water Infrastructure and Resiliency Finance Center (U.S. Environmental Protection Agency (EPA)), Grants.gov, and others.

The funding opportunities contained herein are organized into seven broad categories:

- A. Infrastructure
- B. Economic Development
- C. Energy
- D. Resilience
- E. Safety and Security
- F. Environment and Sustainability
- G. Research and Development

The funding opportunities presented in this version of the Handbook provide billions of federal dollars to invest in the infrastructure that supports the U.S. MTS. Investments in MTS infrastructure from ports, to shipyards, to waterways help to keep the MTS at the forefront of global competitiveness. The improvements enabled by these funding programs can extend economic benefits to communities more than the original dollar amounts of the federal funds provided.

Introduction

The United States (U.S.) Committee on the Marine Transportation System (CMTS) is a Federal Cabinet-level, interagency maritime policy coordinating committee. The CMTS was chartered in July 2005 and authorized in statute in December 2012. The CMTS is directed in [46 U.S.C. 50401](#) to:

- Assess the adequacy of the Marine Transportation System (MTS);
- Promote the integration of the MTS with other modes of transportation and marine uses; and
- Coordinate, improve coordination and make recommendations regarding Federal policies that impact the MTS.

The MTS is composed of an array of interdependent components: waterways, harbors, ports, and inter-modal and land-side connections that allow the various modes of transportation to move people and goods to, from, and on the water. The MTS also includes the infrastructure, both physical and informational, that aids in the movement of people and goods. The MTS supports millions of American jobs, facilitates trade, and provides a safe, secure, cost-effective, and energy-efficient transportation alternative.

Federal agency directives, interest, and engagement with maritime transportation is [spread across 35 agencies and organizations](#). Accordingly, funding for the MTS is found in an array of locations and mechanisms. The Federal Funding Handbook for the Marine Transportation System (Handbook) contains 95 active authorized Federal funding, financing, and technical assistance programs for the MTS through Fiscal Year (FY) 2024. This Handbook also contains 20 archived programs that, while authorized, have not received appropriations recently. The purpose of this Handbook is to serve as a value-added tool for local and non-federal level practitioners as well as Federal stakeholders.

Federal Assistance Programs

Federal assistance programs, projects, services, and activities are government tools for funding projects that provide public services, stimulate the economy, and benefit the public. Federal programs include, but

are not limited to grants, loans, loan guarantees, scholarships, mortgage loans, insurance, and other types of financial assistance including cooperative agreements, property, technical assistance, counseling, statistical, and other expert information, and service activities of regulatory agencies.

Grants are one of the ways the government funds ideas and projects to provide public services and stimulate the economy. Grants can be awarded for a wide variety of activities, such as innovative research, recovery initiatives, and infrastructure building. There are [26 federal departments](#) that provide grants. [Grants.gov](#) centralizes information from more than 1,000 government grant programs, grant lifecycle, policies on grants management, and profiles on grant-making agencies. The [Community Blog](#) on Grants.gov is an especially helpful overview of the process including a deep dive into the three phases of a grant lifecycle:

1. Pre-Award Phase – funding opportunity announcement and application review
2. Award Phase – award decisions and notifications
3. Post Award – implementation, reports, and closeout

Loans are another form of government support and serve a specific purpose such as paying for education, helping with housing or business needs, or responding to an emergency or crisis. On [GovLoans.gov](#), you can learn more about Federal loans. Loans are different than grants because they are awarded to an entity for a specific purpose. They are required to be paid back, often with interest.

Federal Assistance Resource Centers

In addition to the online resources and search engines provided above, several Federal assistance resource centers further streamline funding opportunities and aid the public in accessing Federal resource programs for infrastructure including:

U.S. Department of Transportation (DOT)

Build America Bureau

The "Bureau" is responsible for driving transportation infrastructure development projects in the United States. The Bureau streamlines credit opportunities and grants and provides access to the credit and grant programs with speed and transparency, while also providing technical assistance and encouraging innovative best practices in project planning, financing, delivery, and monitoring. To achieve this vision, the Bureau draws upon the full resources of U.S. DOT to best utilize the expertise of all the modes within the Department while promoting a culture of innovation and customer service.

The Bureau serves as the single point of contact and coordination for states, municipalities, and other project sponsors looking to utilize Federal transportation expertise; apply for Federal transportation credit programs; and explore ways to access private capital in public-private partnerships. The Bureau combines the Transportation Infrastructure Finance and Innovation Act (TIFIA), Railroad Rehabilitation & Improvement Financing loan programs, Private Activity Bonds (PABs), and the Infrastructure for Rebuilding America (INFRA) grant program all under one roof within the Office of the Undersecretary for Transportation for Policy. For more information about the Bureau, visit their website:

<https://www.transportation.gov/buildamerica>.

Center for Innovative Finance Support

The Federal Highway Administration (FHWA), an agency within U.S. DOT, supports state and local governments in the design, construction, and maintenance of the Nation's highway system and various federal and tribal owned lands. Through financial and technical assistance to state and local governments, the FHWA is responsible for ensuring that America's roads and highways continue to be safe and technologically sound.

The FHWA established the Office of Innovative Program Delivery in October 2008 to provide a comprehensive set of tools and resources to assist the transportation community in exploring and implementing innovative strategies to deliver programs and projects. The Office was reorganized in 2016 into four centers, one of which is the Center for Innovative Finance Support. The Center for Innovative Finance Support's mission is to expand public sector capacity to design and implement alternative financial strategies for delivering transportation infrastructure. The Center conducts research, delivers training, distributes information, and provides technical assistance in support of these strategies, which are grouped into three program areas: public-private partnerships, project finance, and revenue. It also serves as FHWA's connection to the U.S. DOT's Build America Bureau (above) and collaborates to identify and coordinate FHWA technical assistance for transportation projects receiving Bureau support. For more information about the Center's resources, visit their website:

<https://www.fhwa.dot.gov/ipd/finance/>.

DOT Discretionary Grants Dashboard

The [DOT Discretionary Grants Dashboard](#) provides communities with an overview of discretionary grant opportunities that can help meet their transportation infrastructure needs. Designed with all communities in mind, the Dashboard identifies grant programs with rural and Tribal set-asides or match waivers available. The Dashboard also includes Federal grant programs outside of DOT that may be of particular interest to [rural communities](#). An updated *Rural Grant Applicant Toolkit* will soon be published to help rural communities harness the Dashboard. The Dashboard is updated weekly.

[The DOT Navigator](#) is a resource to help communities understand the best ways to apply for grants, and to plan for and deliver transformative infrastructure projects and services. A list of anticipated dates for upcoming Notices of Funding Opportunity (NOFO) for key programs within the Bipartisan Infrastructure Law (BIL) and the Inflation Reduction Act (IRA) can be found here: [Key Notices of Funding Opportunity | US Department of Transportation](#).

U.S. Environmental Protection Agency (EPA)

Federal Funding and Technical Assistance for Climate Adaptation

Communities use a variety of sources to fund capital projects, pay for operations and maintenance costs, and sustain programs. It is expected that communities will continue to use a diversity of funding sources as they make investments in climate adaptation. A useful summary of the different types of funding sources, their advantages and disadvantages, and examples of several municipal programs that have employed them can be found in: [Getting to Green: Paying for Green Infrastructure \(PDF\)](#).

Ports Initiative

In support of the Ports Initiative, the EPA has developed a list of funding opportunities for ports and near-port communities. Many of these funding opportunities may be included in this Handbook. Additionally, the EPA resource includes state and local funding resources. To access the EPA resource, visit their website: <https://www.epa.gov/ports-initiative/funding-opportunities-ports-and-near-port-communities>. For information on additional EPA funding opportunities and assistance, visit: [EPA Grants | US EPA](#).

Water Infrastructure and Resiliency Finance Center

The Water Infrastructure and Resilience Finance Center is an information and assistance center, helping communities make informed decisions for drinking water, wastewater, and storm water infrastructure to protect human health and the environment. Through its technical assistance to states, local government, and non-governmental entities, the Water Finance Center helps communities understand their financing options, improving the effectiveness of Federal funding, and supporting local decision-making for resilient water infrastructure. For more information about the Center's resources, visit their website: <https://www.epa.gov/waterfinancecenter>.

The Center has developed a [Water Finance Clearinghouse](#), a one-stop-shop to assist communities who want to access information and resources that will assist them in making informed decisions for their drinking water, wastewater, and storm water infrastructure needs. The Clearinghouse features two searchable data sets: one focused on available Federal, State, and local funding sources for water infrastructure, and the second contains resources, such as reports, tools, training materials, etc. focused on financing mechanisms and approaches.

Federal Emergency Management Agency (FEMA)

Grants Management Technical Assistance Resources

FEMA's Grants Management Technical Assistance (GMTA) Program administers this resource center for state, tribal, territorial, and local governments receiving Federal financial assistance. Explore the different stages of the grant's lifecycle, as well as the resources associated with each at <https://training.fema.gov/grantsmanagement/>.

Grants.gov Frequently Asked Questions

Grants.gov has an extensive Frequently Asked Questions by Applicants page on their website: [HHS Grants.gov Service Portal - Grants.gov Self Service Portal \(servicenowservices.com\)](#). In addition, the Grants.gov Support Page provides further information: <https://www.grants.gov/web/grants/support.html>.

HUD Exchange

The [Funding Navigator](#) provides a listing of funding opportunities under the IRA, BIL, and others across federal agencies to support efforts to enhance climate resiliency, energy efficiency, renewable energy integration, healthy housing, workforce development and environmental justice in HUD supported communities, programs and properties. Find open and upcoming opportunities, including funding status and where to apply, for funds to implement projects that reduce energy use and strengthen resiliency in communities.

Handbook Organization

This Handbook was developed as a resource for the MTS community, including public and private stakeholders. This is the sixth iteration of the Handbook since 2013.

The 2024 issue is organized into seven broad funding categories:

- A. Infrastructure
- B. Economic Development
- C. Energy
- D. Resilience
- E. Safety and Security
- F. Environment and Sustainability
- G. Research and Development

Within these seven categories, programs are listed alphabetically with “keyword” fields. The funding program fields include active hyperlinks directing users to the appropriate website with one click. All programs include hyperlinks to their respective government websites ([Grants.gov](#), NOFOs, and/or program pages). There are five appendices at the end of the document including a Glossary of Terms (Appendix A), Funding Programs in Alphabetical Order (Appendix B), Funding Programs by Agency (Appendix C), and Funding Programs by Assistance Type (Appendix D).

Each funding program listed in the Handbook contains standardized information fields organized in the format below:

Program Title (official title)

Keywords: This field consists of index terms and descriptor words which enable an efficient search of the document.

Assistance Type: Discretionary Grant, Competitive Grant, Grant/Cost-Match, Formula Grant, Technical Assistance, Cooperative Agreement, Financial Incentive, Tax Deferral, Direct Loan, Bonds, etc.

Agency: Managing Agency and/or Department

Purpose: This field explains the purpose of the funding program. This information is sourced from the funding program and/or authorizing legislation.

Award Ceiling: This field contains the maximum dollar amount indicated for an individual award, when available.

Authorization: Authorizing legislation. In some cases, the applicable act is provided.

Website: Direct link to program page and Grants.gov website, when available.

Contact Information: Program manager or primary point of contact to obtain further information.

This is a living document that will be updated periodically, pursuant to available resources. To that end, we welcome stakeholder input to ensure this Handbook continues to be a valuable and relevant document. Please direct your feedback to the CMTS at MTSinfo@cmts.gov.

Handbook Disclaimer

This document is a compilation of existing and recent Federal funding programs. It is provided as a resource. No program is endorsed nor are the programs listed herein all-inclusive. It includes current and recent programs whose application deadlines may have passed. Current funding does not guarantee future funding.

Grant applications cannot be filed through the CMTS, nor can the CMTS assist in the application. The required materials for grant applications must be provided to the targeted funding program or through Grants.gov as directed. We recommend that you review www.Grants.gov for other applicable programs and various submission requirements such as [EPA's Grants Guidance](#) or the National Science Foundation's [Proposal and Award Policies and Procedures Guide](#). To aid in accuracy, the information for each program in this handbook was taken from the program's instruction for application (e.g., Grants.gov) or from the program's website. Contact the funding program manager to determine if a program meets the needs of your project.

The DOT FHWA program funding is typically formula-based and data-driven. Hence, it typically passes through the state or a metropolitan planning organization (MPO). Interested parties may wish to work collaboratively with their respective State Department of Transportation or MPO. The same goes for FEMA grants where, in many cases, applicants work with their regional offices.

Use of this Handbook does not negate the need for all development and construction projects involving Federal funding to be compliant with the National Environmental Protection Act; related environmental laws; and all other required permits.

Finally, please review [Federal Acquisition Regulations](#) and the [Federal Funding Accountability and Transparency Act, 2006](#), to consider and be aware of acquisition, funding, and reporting guidelines.

Commonly Used Acronyms

ARRA	American Recovery and Reinvestment Act (2009)
BAA	Broad Agency Announcement
BIL	Bipartisan Infrastructure Law
CARES	Coronavirus Aid, Relief, and Economic Security Act
CFR	Code of Federal Regulations
CMTS	U.S. Committee on the Marine Transportation System
DHS	U.S. Department of Homeland Security
DOC	U.S. Department of Commerce
DOE	U.S. Department of Energy
DOI	U.S. Department of the Interior
DOL	U.S. Department of Labor
DOT	U.S. Department of Transportation
EDA	U.S. Economic Development Administration (DOC)
EPA	U.S. Environmental Protection Agency
ERDC	Engineer Research & Development Center (USACE)
FAST Act	Fixing America's Surface Transportation Act
FEMA	Federal Emergency Management Agency (DHS)
FHWA	Federal Highway Administration (DOT)
FTA	Federal Transit Administration (DOT)
FWS	U.S. Fish & Wildlife Service (DOI)
FY	Fiscal Year
IJA	The Infrastructure Investment and Jobs Act
IRA	Inflation Reduction Act
IRS	Internal Revenue Service
MAP-21	Moving Ahead for Progress in the 21st Century
MARAD	Maritime Administration (DOT)
MMC	Marine Mammal Commission
MPO	Metropolitan Planning Organization
MTS	Marine Transportation System
N/A	Not Applicable
NDAA	National Defense Authorization Act
NETL	National Energy Technology Laboratory
NHS	National Highway System
NMFS	National Marine Fisheries Service (DOC)
NOAA	National Oceanic and Atmospheric Administration (DOC)
NOFA	Notice Of Funding Availability
NOFO	Notice Of Funding Opportunity
NSF	U.S. National Science Foundation
OST	Office of the Secretary (DOT)
PABs	Private Activity Bonds
SAFETEA-LU	Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users
SBA	Small Business Administration
TIFIA	Transportation Infrastructure Finance and Innovation Act
TDD	Telecommunication Device for the Deaf
USACE	U.S. Army Corps of Engineers
U.S.C.	U.S. Code
USDA	U.S. Department of Agriculture

WIFIA Water Infrastructure Finance and Innovation Act
WIOA Workforce Innovation and Opportunity Act
WRDA Water Resources Development Act

Funding Programs

(A) Infrastructure

1. Advanced Transportation & Congestion Management Technologies Deployment Program

Keywords: Ports, Transportation, Safety, Efficiency, Infrastructure

Assistance Type: Grant

Agency: U.S. Department of Transportation, Federal Highway Administration

Purpose: To develop model deployment sites for large scale installation and operation of advanced transportation technologies to improve safety, efficiency, system performance, and infrastructure return on investment.

Award Ceiling: \$12,000,000

Authorization: FAST Act § 6004; 23 U.S.C. 503(c)(4)

Website: <https://www.fhwa.dot.gov/fastact/factsheets/advtranscongmgmtfs.cfm>

Contact Information: Ryan Buck, (202) 366-4229

2. Building Resilient Infrastructure and Communities (BRIC)

Keywords: Hazard Mitigation, Disasters, Natural Hazards, Resilience

Assistance Type: Discretionary

Agency: U.S. Department of Homeland Security, Federal Emergency Management Agency

Purpose: The BRIC program gives states, local communities, tribes, and territories funding to address future risks to natural disasters, including wildfires, drought, hurricanes, earthquakes, extreme heat, and flooding. Addressing these risks helps make communities more resilient.

Award Ceiling: \$1 billion, the funding structure is comprised of three separate application opportunities

Authorization: Bipartisan Infrastructure Law

Website: [Building Resilient Infrastructure and Communities | FEMA.gov](#)

Contact Information: Visit the [BRIC Direct Technical Assistance webpage](#) for more information on the initiative, or view this [year's communities and tribal nations selections](#).

3. Capital Construction Fund (CCF) Program

Keywords: Fishing, Marine, Vessels, Maritime, Economic Development

Assistance Type: Tax Deferral

Agency: U.S. Department of Commerce (DOC), National Oceanic & Atmospheric Administration (NOAA); U.S. Department of Transportation, Maritime Administration (MARAD)

Purpose: To improve the fishing and commercial vessel fleet by allowing fishermen and vessel owners to accelerate their accumulation of funds with which to replace or improve their fishing and commercial vessels. The Capital Construction Fund Program enables fishermen and vessel owners to construct, reconstruct or acquire fishing and commercial vessels with before-tax, rather than after-tax dollars.

Award Ceiling: N/A

Authorization: 46 USC 535

Website: <https://www.fisheries.noaa.gov/national/funding-and-financial-services/capital-construction-fund-program>, <https://www.maritime.dot.gov/grants/capital-construction-fund>

Contact Information: Office of Financial Approvals, Daniel.Ladd@dot.gov, (202) 366-5737; Capital Construction Fund Program, Financial Services Division, Richard.vangorder@noaa.gov, (301) 427-8784

4. Construction Reserve Fund (CRF)

Keywords: Transportation, Vessel, Maritime

Assistance Type: Tax Deferral

Agency: U.S. Department of Transportation, Maritime Administration

Purpose: To promote the construction, reconstruction, reconditioning, or acquisition of merchant vessels that are necessary for national defense and to the development of U.S. commerce.

Award Ceiling: N/A

Authorization: 46 U.S.C. Chapter 533

Website: <https://www.maritime.dot.gov/grants/construction-reserve-fund>

Contact Information: Office of Financial Approvals, Daniel.Ladd@dot.gov, (202) 366-5737

5. Corps Water Infrastructure Financing Program (CWIFP)

Keywords: Infrastructure, Water

Assistance Type: Loan

Agency: U.S. Army Corps of Engineers

Purpose: CWIFP enables local investment in infrastructure projects that enhance community resilience to flooding, promote economic prosperity, and improve environmental quality. Through CWIFP, the USACE will accelerate non-federal investments in water resources infrastructure by providing long-term, low-cost loans to creditworthy borrowers. Presently, CWIFP can provide credit assistance to projects to maintain, upgrade, and repair dams identified in the National Inventory of Dams owned by non-federal entities.

Award Ceiling: CWIFP can fund loans up to 80% of project costs for most borrowers. However, for projects that do not serve economically disadvantaged communities in some way, CWIFP loans are limited to 49% of project costs. Projects must be \$20 million or more; however, applicants may bundle smaller projects together to reach the \$20 million minimum.

Authorization: Water Infrastructure and Innovation Act of 2014 (33 U.S.C. Ch. 52)

Website: <https://www.usace.army.mil/CWIFP>

Contact Information: Nathan Campbell, cwifp@usace.army.mil, (651) 219-2963

6. Electric or Low-Emitting Ferry Pilot Program

Keywords: Transportation, Ferry, Maritime

Assistance Type: Discretionary Grant

Agency: U.S. Department of Transportation, Federal Transit Administration (FTA)

Purpose: Provides competitive funding for projects that support the purchase of electric or low-emitting ferries and the electrification of or other reduction of emissions from existing ferries.

Award Ceiling: FY2022 provided nearly \$97.6 million in funding.

Authorization: Bipartisan Infrastructure Law (IIJA § 71102)

Website: <https://www.transit.dot.gov/grants/fta-ferry-programs>

Contact Information: Vanessa Williams, vanessa.williams@dot.gov, (202) 366-4818

7. Farm Storage Facility Loan Program

Keywords: Agriculture, Storage, Vehicle

Assistance Type: Loan

Agency: U.S. Department of Agriculture (USDA), Farm Service Agency

Purpose: To provide low-interest financing so producers can build or upgrade farm storage and handling facilities to store eligible commodities they produce. A producer may borrow up to \$500,000 per loan, with a minimum down payment of 15 percent. Loan terms are up to 12 years, depending on the amount of the loan. Producers must demonstrate storage needs based on three years of production history. The Farm Service Agency also provides a microloan option that, while available to all eligible farms and ranchers, also should be of particular interest to new or small producers where there is a need for financing options for loans up to \$50,000 at a lower down payment with reduced documentation.

Award Ceiling: \$500,000 for storage facilities, \$100,000 for storage and handling trucks.

Authorization: Food, Conservation, and Energy Act, 2008

Website: <http://www.fsa.usda.gov/programs-and-services/price-support/facility-loans/farm-storage/index>

Contact Information: Your local FSA office can be found here:

<http://www.fsa.usda.gov/FSA/stateOffices?area=stoffice&subject=landing&topic=landing>

8. Federal Ship Financing Program (Title XI)

Keywords: Transportation, Vessel, Maritime

Assistance Type: Loan Guarantee

Agency: U.S. Department of Transportation, Maritime Administration

Purpose: To provide for a full faith and credit guarantee by the U.S. Government to promote the growth and modernization of the U.S. merchant marine and U.S. shipyards. The Federal Ship Financing Program (commonly referred to as “Title XI”) promotes U.S. Merchant Marine fleet and U.S. shipyard growth and modernization. Through long term debt repayment guarantees, the Program encourages U.S. shipowners to obtain new vessels from U. S. shipyards cost effectively. It also assists U.S. shipyards with modernizing their facilities for building and repairing vessels. The repayment term allowed under the program generally is much longer and the interest rates are lower than those available from the commercial lending market because the obligations guaranteed by the U.S. Government.

Award Ceiling: N/A

Authorization: Merchant Marine Act of 1936. U.S. Code of Statute: 46 USC Chapter 537: LOANS AND GUARANTEES and U.S. Code of Federal Regulations (CFR): 46 CFR 298: OBLIGATION GUARANTEES.

Website: <https://www.maritime.dot.gov/grants/title-xi/federal-ship-financing-program-title-xi>

Contact Information: David M. Gilmore, marinefinancing@dot.gov, (202) 366-5737

9. Ferry Boat Program (FBP)

Keywords: Transportation, Ferry, Maritime

Assistance Type: Formula Grant, using Bureau of Transportation Statistics National Census of Ferry Operators

Agency: U.S. Department of Transportation, Federal Highway Administration

Purpose: The purpose of the FBP is to provide Federal assistance for the construction of ferry boats and ferry terminal facilities (including ferry maintenance facilities), whether toll or free, and the procurement of transit vehicles used exclusively as an integral part of an intermodal ferry trip, in accordance with Title 23, United States Code (U.S.C.), Sections 129(c) and 147. The program makes Federal-aid highway funds available for eligible projects, through State and territorial transportation agencies.

Award Ceiling: N/A

Authorization: Infrastructure Investment and Jobs Act (Public Law 117-58)

Website: https://www.fhwa.dot.gov/bipartisan-infrastructure-law/fbp_fact_sheet.cfm;

<https://www.fhwa.dot.gov/specialfunding/fbp/>

Contact Information: Omar Elkassed, omar.elkassed@dot.gov, (213) 894-6718

10. Ferry Service for Rural Communities Program

Keywords: Transportation, Ferry, Maritime

Assistance Type: Discretionary Grant

Agency: U.S. Department of Transportation, Federal Transit Administration

Purpose: Provides competitive funding to states to ensure basic essential ferry service is provided to rural areas.

Award Ceiling: FY2022-23 provided nearly \$252.4 million in funding

Authorization: Bipartisan Infrastructure Law (IIJA § 71103)

Website: [Ferry Service for Rural Communities Program - IIJA § 71103 | FTA \(dot.gov\)](https://www.transit.dot.gov/grants/fta-ferry-programs);

<https://www.transit.dot.gov/grants/fta-ferry-programs>

Contact Information: Sarah Clements, sarah.clements@dot.gov, (202) 366-3062

11. Grant Anticipation Revenue Vehicles (GARVEEs)

Keywords: Transportation, Roads, Rail, Construction

Assistance Type: Bonds Repaid, all or in part, by future Federal aid funds

Agency: U.S. Department of Transportation, Federal Highway Administration

Purpose: To allow states to loan their Federal-aid formula funds to public or private borrowers to build an eligible surface transportation facility. States have the flexibility to negotiate interest rates, repayment schedules, and other loan terms, except that repayments must begin within five years after project completion and be repaid within 30 years after Federal funds were authorized. Amounts repaid to a state can be spent on further eligible projects without further Federal requirements.

Award Ceiling: N/A

Authorization: National Highway System Designation Act of 1995, Section 122 of Title 23

Website: http://www.fhwa.dot.gov/ipd/finance/tools_programs/federal_debt_financing/garvees/index.htm

Contact Information: Mark Sullivan, FHWA Center for Innovative Finance Support, mark.sullivan@dot.gov, (202) 366-5785

12. Infrastructure for Rebuilding America (INFRA) Grants

Keywords: Ports, Transportation, Infrastructure, Maritime, Roads, Rail, Highway

Assistance Type: Discretionary Grant

Agency: U.S. Department of Transportation, Office of the Secretary of Transportation (OST)

Purpose: INFRA discretionary grants (known in statute as the Nationally Significant Multimodal Freight & Highway Projects) awards competitive grants for multimodal freight and highway projects of national or regional significance to improve the safety, efficiency, and reliability of the movement of freight and people in and across rural and urban areas. To be eligible under INFRA, a project within the boundaries of a freight rail, water (including ports), or intermodal facility must be a surface transportation infrastructure project necessary to facilitate direct intermodal interchange, transfer, or access into or out of the facility and must significantly improve freight movement on the National Highway Freight Network.

Award Ceiling: Total funding available over 5 years (FY22-FY26) is \$8 billion.

Authorization: Infrastructure Investment and Jobs Act (Pub. L. 117-58, November 15, 2021)

Website: <https://www.transportation.gov/grants/infra-grant-program>

Contact Information: Email MPDGrants@dot.gov.

13. Marine Highway Program

Keywords: Security, Infrastructure, Ports, Maritime, Resilience

Assistance Type: Competitive Grant

Agency: U.S. Department of Transportation, Maritime Administration

Purpose: The United States Marine Highway Program (USMHP) is a Congressionally legislated competitive grant program for coastal seaports, inland river ports, and Great Lakes ports. Through the development and promotion of marine highway transportation, the program aims to relieve landside congestion, reduce air emissions, and generate other public benefits by increasing the efficiency of the surface transportation system. The USMHP statute authorizes the U.S. DOT to make grants to implement projects or components of projects that provide a coordinated and capable alternative to landside transportation; mitigate or relieve landside congestion; use documented vessels (under 46 U.S.C. Chapter 121); and develop, expand, or promote marine highway transportation.

Marine Highway grants have been awarded on a competitive basis throughout the nation along designated U.S. Marine Highway Routes reaching 41 states, the District of Columbia, and five U.S. territories. The USMHP leverages federal funding with non-federal contributions to expand the total resources being used to develop U.S. Marine Highway projects and services. From FY2010 through FY2023, Congress appropriated \$101.4 million for the USMHP, which has been used to support 64 awards. The James M. Inhofe National Defense Authorization Act (NDAA) for Fiscal Year 2023 made significant changes to the USMHP:

- Changed the name of “America’s Marine Highway Program” to “United States Marine Highway Program (USMHP)”.
- Expanded the definition of marine highway transportation to include bulk, liquid, and loose cargo, including (solid) bulk cargo such as sugar, iron ore, fertilizer, livestock and animal products, minerals/cement, coal, soy, and wheat; break bulk cargo; and liquid bulk cargo, such as petroleum, LPG (liquefied petroleum gas), LNG (liquefied natural gas), and chemicals.
- Expanded the definition of marine highway transportation to include shipments to/from ports in Canada and Mexico (no grant funds can be used outside of the U.S.).
- Project Designations are no longer required to be eligible for USMHP grants. Until now, the USMHP had followed a three-step approach, requiring Route and Project Designations as prerequisites to federal assistance. Now, eligible grant projects must still serve a designated U.S. Marine Highway Route to receive a grant; however, per the FY2023 NDAA, Project Designations are no longer required to be eligible for USMHP grants.
- Only projects that serve U.S. Marine Highway routes designated by the Secretary of Transportation are eligible to apply for grant funds. As of January 2024, there are 41 designated Marine Highway Routes.
- A United States private sector operator of marine highway projects or private sector owners of facilities, including an Alaska Native Corporation, are eligible to apply for a grant, but require an endorsement letter from the current U.S. Marine Highway Route Sponsor (prior year applications required the support of the designated project sponsor).
- Allows the Secretary to increase the Federal share of funding for the Project to an amount above 80 percent for Tribal governments or for a Project located in a rural area.

Award Ceiling: N/A

Authorization: The Consolidated Appropriations Act, 2023 appropriated \$10,000,000 to the USMHP

Website: <https://www.maritime.dot.gov/grants-finances/marine-highways/grants>

Contact Information: Maritime Administration, mh@dot.gov, (202) 366-1123

14. Metropolitan Planning Program (MPP)

Keywords: Intermodal, Pedestrian, Bicycle, Congestion, Intercity, Resilience, Mitigation

Assistance Type: Formula Grant

Agency: U.S. Department of Transportation, Federal Highway Administration

Purpose: To establish a cooperative, continuous, and comprehensive framework for making transportation investment decisions in metropolitan areas. Program oversight is a joint Federal Highway Administration and Federal Transit Administration responsibility.

Award Ceiling: N/A

Authorization: Bipartisan Infrastructure Law (§ 11201; 23 U.S.C. 134)

Website: [Bipartisan Infrastructure Law - Metropolitan Planning Program \(MPP\) Fact Sheet | Federal Highway Administration \(dot.gov\)](#)

Contact Information: Harlan Miller, Harlan.Miller@dot.gov, (202) 366-0847

15. National Highway Performance Program

Keywords: Transportation, Roads, Highway

Assistance Type: Formula Grant

Agency: U.S. Department of Transportation, Federal Highway Administration

Purpose: (1) To provide support for the condition and performance of the National Highway System (NHS); (2) to provide support for the construction of new facilities on the NHS; and (3) to ensure that investments of Federal-aid funds in highway construction are directed to support progress toward the achievement of performance targets established in a State’s asset management plan for the NHS.

Award Ceiling: N/A

Authorization: Infrastructure Investment and Jobs Act (Public Law 117-58)

Website: [Implementation Guidance for the National Highway Performance Program \(NHPP\) as Revised by the Bipartisan Infrastructure Law \(dot.gov\)](#)

Contact Information: David Bartz, David.Bartz@dot.gov, (512) 417-5191

16. National Infrastructure Project Assistance or “Mega”

Keywords: Ports, Transportation, Infrastructure, Maritime, Roads, Rail

Assistance Type: Discretionary Grant

Agency: U.S. Department of Transportation, Office of the Secretary of Transportation

Purpose: This program—sometimes referred to as Mega—provides grants on a competitive basis to support multijurisdictional or regional projects of significance that may also cut across multiple modes of transportation. Communities are eligible to apply for funding to complete critical large projects that would otherwise be unachievable without assistance. 49 USC 6701 (BIL Section 21201). The Mega grant program funding will be made available under the Multimodal Project Discretionary Grant (MPDG) combined NOFO.

Award Ceiling: Total funding available over 5 years (FY22-FY26) is \$5 billion.

Authorization: Infrastructure Investment and Jobs Act (Pub. L. 117-58, November 15, 2021)

Website: [The Mega Grant Program | US Department of Transportation](#)

Contact Information: MPDGGrants@dot.gov

17. Passenger Ferry Grant Program

Keywords: Transportation, Ferry, Maritime

Assistance Type: Discretionary Grant

Agency: U.S. Department of Transportation, Federal Transit Administration

Purpose: Provides competitive funding for projects supporting passenger ferry systems in urbanized areas. These funds constitute a core investment in the enhancement and revitalization of public ferry systems in the nation’s urbanized areas. Funds are awarded based on factors such as the age and condition of existing ferry boats, terminals, and related infrastructure; benefits to riders, such as increased reliability; project readiness; and connectivity to other modes of transportation.

Award Ceiling: FY2022 provided nearly \$34.4 million in funding
Authorization: Section 5307(h)
Website: [FTA Ferry Programs | FTA \(dot.gov\)](#)
Contact Information: Vanessa Williams, vanessa.williams@dot.gov, (202) 366-4818

18. Port Infrastructure Development Program (PIDP)

Keywords: Infrastructure, Ports, Maritime, Resilience, Environment
Assistance Type: Competitive Grant
Agency: U.S. Department of Transportation, Maritime Administration
Purpose: The Port Infrastructure Development Program (PIDP) is a Congressionally legislated competitive grant program for coastal seaports, inland river ports, and Great Lakes ports. Under the Bipartisan Infrastructure Law, \$450 million is available each year for FY22 – FY26. As a discretionary grant program, funds for the PIDP are awarded on a competitive basis to projects that improve the safety, efficiency, or reliability of the movement of goods into, out of, around, or within a port. Eligible projects include projects that improve the resiliency of ports to address sea-level rise, flooding, extreme weather events, earthquakes, and tsunami inundation; projects that reduce or eliminate port-related criteria pollutant or greenhouse gas emissions; and projects that represent operational improvements to port facilities.
Award Ceiling: Total funding available (through IIJA) is \$2.25 billion for FY22 – FY26. IIJA funding may be supplemented by annual appropriations acts.
Authorization: Infrastructure Investment and Jobs Act (Pub. L. 117-58, November 15, 2021)
Website: <https://www.maritime.dot.gov/PIDPgrants>
Contact Information: Maritime Administration, PIDPgrants@dot.gov, (202) 366-7678

19. Private Activity Bonds (PABs)

Keywords: Transportation, Infrastructure, Roads, Rails, Port Development
Assistance Type: Tax Exempt Municipal Bond
Agency: U.S. Department of Transportation, Build America Bureau
Purpose: The U.S. Secretary of Transportation may allocate up to \$30 billion in bonding authority to provide project sponsors access to tax-exempt financing for certain surface transportation, international bridge or tunnel, or freight transfer facilities projects.
Award Ceiling: N/A
Authorization: Section 142(m) of the Internal Revenue Code of 1986
Website: <https://buildamerica.dot.gov/buildamerica/financing/private-activity-bonds>
Contact Information: BuildAmerica@dot.gov, (202) 366-2300

20. Railroad Rehabilitation and Improvement Financing (RRIF)

Keywords: Transportation, Rail
Assistance Type: Direct Loans, Loan Guarantees
Agency: U.S. Department of Transportation, Build America Bureau
Purpose: Funding may be used to (1) acquire, improve, or rehabilitate intermodal or rail equipment or facilities, including track, components of track, bridges, yards, buildings and shops, and including the installation of positive train control systems; (2) develop or establish new intermodal or railroad facilities; (3) reimburse planning and design expenses relating to activities listed above; (4) refinance outstanding debt incurred for the purposes listed above.
Award Ceiling: N/A
Authorization: Chapter 224 of title 49, United States Code

Website: <https://buildamerica.dot.gov/buildamerica/financing/rrif>

Contact Information: BuildAmerica@dot.gov, (202) 366-2300

21. Rebuilding American Infrastructure with Sustainability and Equity (RAISE)

Keywords: Transportation, Ports, Maritime, Roads, Rail

Assistance Type: Discretionary Grant

Agency: U.S. Department of Transportation, Office of the Secretary

Purpose: Previously known as the Transportation Investment Generating Economic Recovery (TIGER) Discretionary Grants (originally from ARRA) and Better Utilizing Investments to Leverage Development (BUILD), the RAISE grant provides a unique opportunity to invest in roads, rail, transit, and port projects based on national objectives.

Award Ceiling: Total funding available (through IIJA) is \$1.5 billion for FY2022. IIJA funding may be supplemented by annual appropriations.

Authorization: Infrastructure Investment and Jobs Act (Pub. L. 117-58, November 15, 2021)

Website: <https://www.transportation.gov/RAISEgrants>

Contact Information: Office of Infrastructure Finance and Innovation, RAISEgrants@dot.gov, (202) 366-0301

22. Reconnecting Communities and Neighborhoods (RCN) Grant Program

Keywords: Communities, Disadvantaged

Assistance Type: Discretionary, Community Planning Grants, Capital Construction Grants, and Regional Partnerships Challenge Grants

Agency: U.S. Department of Transportation, Office of the Secretary of Transportation

Purpose: RCN combines two programs to support communities in developing multimodal solutions to create greater connections and remove barriers in the transportation system.

Award Ceiling: N/A

Authorization: Bipartisan Infrastructure Law, Inflation Reduction Act

Website: [Reconnecting Communities and Neighborhoods Grant Program | US Department of Transportation](#)

Contact Information: Email: ReconnectingCommunities@dot.gov, Andrew Emanuele, andrew.emanuele@dot.gov, and Tameka Macon-Ryan, tameka.maconryan@dot.gov

23. SBA 504 Loan Program

Keywords: Economy, Real Estate, Facilities, Utilities

Assistance Type: Loan

Agency: U.S. Small Business Administration (SBA)

Purpose: 504 loans are available through Certified Development Companies (CDCs), SBA's community-based partners who regulate nonprofits and promote economic development within their communities. The CDC/504 Loan Program provides long-term, fixed rate financing of up to \$5 million for major fixed assets that promote business growth and job creation.

Award Ceiling: Maximum loan amounts are determined by whether funds will be used to support job creation, public policy and/or small manufacturing.

Authorization: N/A

Website: [504 loans | U.S. Small Business Administration \(sba.gov\)](#)

Contact Information: To connect with SBA approved lenders, visit the [lender match page](#).

24. Section 129 Loans

Keywords: Transportation, Roads, Title 23

Assistance Type: Loan Leverage Tool

Agency: U.S. Department of Transportation, Federal Highway Administration

Purpose: To allow states to leverage additional transportation resources and recycle assistance to other eligible projects. States have the flexibility to negotiate interest rates and other terms of Section 129 loans.

Award Ceiling: N/A

Authorization: Intermodal Surface Transportation Efficiency Act, 1991; amended by the National Highway System Designation Act, 1995

Website:

http://www.fhwa.dot.gov/ipd/finance/tools_programs/federal_credit_assistance/section_129/index.htm

Contact Information: Mark Sullivan, Mark.sullivan@dot.gov, (202) 366-5785

25. Small Shipyard Grants Program

Keywords: Transportation, Vessel, Maritime

Assistance Type: Discretionary Grant

Agency: U.S. Department of Transportation, Maritime Administration

Purpose: To foster efficiency, competitive operations, and quality ship construction, repair, and reconfiguration in small shipyards across the United States in addition to fostering employee skills and enhanced productivity related to shipbuilding, ship repair, and associated industries.

Award Ceiling: N/A

Authorization: Consolidated Appropriations Act, 2023 Pub. L. 117-328, December 29, 2022 (Small Shipyard Grant Program Codified at 46 U.S.C. § 54101)

Website: <https://www.maritime.dot.gov/grants/small-shipyard-grants>

Contact Information: smallshipyardgrants@dot.gov, (202) 366-5737

26. State Infrastructure Banks (SIBs)

Keywords: Transportation, Public-Private-Partnerships, Roads, Rail

Assistance Type: Loan Leverage Tool

Agency: U.S. Department of Transportation, Federal Highway Administration

Purpose: SIBs are revolving infrastructure investment funds for surface transportation that are established and administered by states. A SIB, much like a private bank, can offer a range of loans and credit assistance enhancement products to public and private sponsors of Title 23 highway construction projects, Title 49 transit capital projects, and Title 49 (subtitle V) railroad projects. The requirements of Titles 23 and 49 apply to SIB repayments from Federal and non-federal sources. All repayments are considered to be Federal funds.

Award Ceiling: Varying

Authorization: Title 23 U.S.C. 610

Website: https://www.fhwa.dot.gov/ipd/finance/tools_programs/federal_credit_assistance/sibs/

Contact Information: Frederick Werner, Frederick.werner@dot.gov, (404) 562-3680

27. Surface Transportation Block Grant Program

Keywords: Transportation, Roads

Assistance Type: Formula Grant

Agency: U.S. Department of Transportation, Federal Highway Administration

Purpose: To provide flexible funding for States and localities to preserve and improve the conditions and performance on any Federal-aid highway, bridge and tunnel projects on any public road, pedestrian and bicycle infrastructure, and transit capital projects, including intercity bus terminals.

Award Ceiling: FY2019 total funding available is \$12 billion

Authorization: Infrastructure Investment and Jobs Act (Public Law 117-58)

Website: [Subject: INFORMATION: Implementation Guidance for the Surface Transportation Block Grant Program \(STBG\) as Revised by the Bipartisan Infrastructure Law \(dot.gov\)](#)

Contact Information: David Bartz, David.Bartz@dot.gov, (512) 417-5191

28. Transportation Alternatives Set-Aside

Keywords: Transportation, Bicycles, Pedestrian, Historic Preservation, Vegetation Management, Safe Routes to School, Trails

Assistance Type: Formula Grant

Agency: U.S. Department of Transportation, Federal Highway Administration

Purpose: To provide funding for programs and projects defined as transportation alternatives, including on- and off-road pedestrian and bicycle facilities, infrastructure projects for improving non-driver access to public transportation and enhanced mobility, community improvement activities such as historic preservation and vegetation management, and environmental mitigation; recreational trails program projects; safe routes to school projects; and vulnerable road user safety assessments.

Award Ceiling: FY2021-2026 funding averages \$1.4 billion annually. Funds apportioned through States, with 59 percent suballocated by population.

Authorization: Bipartisan Infrastructure Law

Website: https://www.fhwa.dot.gov/environment/transportation_alternatives/

Contact Information: Christopher Douwes, Christopher.Douwes@dot.gov, (202) 366-5013

29. Transportation Infrastructure Finance and Innovation Act (TIFIA)

Keywords: Transit, Transportation, Public-Private-Partnerships, Roads, Rail, Intermodal Facilities, Ports

Assistance Type: Secured Loans, Credit Lines, and Loan Guarantees

Agency: U.S. Department of Transportation, Build America Bureau

Purpose: To fill market gaps and leverage substantial private co-investment through supplemental, subordinate investment in critical improvements to the nation's transportation system. TIFIA credit assistance provides improved access to capital markets, flexible repayment terms, and more favorable interest rates than can be found in private capital markets for similar instruments.

Award Ceiling: Up to 33 percent of eligible project costs or 49 percent for certain transit and transit-oriented development projects.

Authorization: Title 23, U.S.C., Section 609(b)

Website: <https://www.transportation.gov/buildamerica/financing/tifia>

Contact Information: BuildAmerica@dot.gov, (202) 366-2300

30. USACE Planning Assistance to States

Keywords: Infrastructure, Community, Environment, Conservation

Assistance Type: Technical Assistance

Agency: U.S. Army Corps of Engineers

Purpose: To assist the States, local governments, Native American Tribes, and other non-Federal entities, in the preparation of comprehensive plans for the development and conservation of water and related land resources.

Award Ceiling: N/A

Authorization: Section 3015 of WRDA 2014 and Section 1128 of WRDA of 2016

Website: http://www.usace.army.mil/Missions/Civil-Works/Project-Partnership-Agreements/templates_pas/

Contact Information: US Army Corps of Engineers - [District Office Program Manager](#)

31. Water Infrastructure Finance and Innovation Act (WIFIA)

Keywords: Infrastructure, Water

Assistance Type: Loan

Agency: U.S. Environmental Protection Agency

Purpose: To accelerate investment in our nation's water infrastructure by providing long-term, low-cost supplemental loans for regionally and nationally significant projects.

Award Ceiling: \$20 million is the minimum project size for large communities (population above 25,000), \$5 million is the minimum project size for small communities (population of 25,000 or less).

Authorization: The WIFIA, 2014, FAST Act, 2015, Water Infrastructure Improvements for the Nation (WIIN) Act, 2016

Website: <https://www.epa.gov/wifia>

Contact Information: Karen Fligger, wifia@epa.gov, (202) 564-2992

(B) Economic Development

32. Building Pathways to Infrastructure Jobs H-1B Skills Training Grant

Keywords: Public-private partnerships, Technical Assistance, Workforce Development, Training, Education

Assistance Type: Discretionary Grant

Agency: U.S. Department of Labor (DOL), Employment and Training Administration

Purpose: The purpose of the DOL Building Pathways to Infrastructure Jobs Grant Program is to fund public-private partnerships to develop, strengthen, and scale promising and evidence-based training models in H-1B industries and occupations critical to meeting the goals of the Bipartisan Infrastructure Law and to maximize the impact of these investments. The United States will need a proficient workforce to fill the good-paying jobs created by this historic investment, and this grant program will train job seekers in advanced manufacturing; information technology; and professional, scientific, and technical services occupations that support renewable energy, transportation, and broadband infrastructure sectors. The DOL Building Pathways to Infrastructure Jobs Grant Program represents a down payment for the future skilled workforce needs that are being developed through the BIL investments by investing in the development and expansion of the workforce partnerships that will be needed to build equitable pathways to good infrastructure jobs.

Award Ceiling: \$5,000,000

Authorization: Section 414(c) of the American Competitiveness and Workforce Improvement Act of 1998

Website: <https://www.grants.gov/search-results-detail/343871>

Contact Information: Ariam Ferro, IN_FOA-ETA-23-31@dol.gov

33. Critical Sector Job Quality Grants

Keywords: Technical Assistance, Workforce Development, Training, Education

Assistance Type: Discretionary Grant

Agency: U.S. Department of Labor, Employment and Training Administration

Purpose: The purpose of this demonstration program is to support transformative efforts to improve job quality and availability of good jobs, particularly for the benefit of historically marginalized populations and communities that have experienced barriers to employment in good jobs. The primary focus of these demonstration grants is expanding job quality in the care, climate resiliency and clean energy transition, and hospitality sectors. These demonstration grants will support industry-led, worker-centered sector strategies built through labor-management partnerships aimed at improving job quality in key sectors. These partnerships will address equity, job quality, and worker voice as they design training models and train workers for family-supporting jobs. High-quality jobs, for the purposes of this grant program, include those that offer family-sustaining wages and benefits, have predictable hours and schedules, are filled through transparent and nondiscriminatory hiring and promotion practices, offer clear paths for advancement, always prioritize worker health and safety, and include workers' voices in the workplace. Projects under this announcement will fund both short-term capacity-building planning grants and longer-term implementation grants.

Award Ceiling: \$3,000,000

Authorization: Workforce Innovation and Opportunity Act (WIOA) sec. 169(c)

Website: <https://www.grants.gov/search-results-detail/347671>

Contact Information: Anu Mathew, DOL-ETA-DWG@dol.gov

34. Economic Development Assistance Programs

Keywords: Economic Development, Job Creation, Rural

Assistance Type: Discretionary Grant, Cooperative Agreement

Agency: U.S. Department of Commerce, Economic Development Administration (EDA)

Purpose: To support the implementation of economic development strategies that advance new ideas and creative approaches to advance economic prosperity in urban and rural distressed communities. EDA solicits applications from applicants in rural and urban areas to provide investments that support construction, non-construction, technical assistance, and revolving loan fund projects under EDA's Public Works and Economic Adjustment Assistance programs. Grants made under these programs are designed to leverage existing regional assets and support the implementation of economic development strategies that advance new ideas and creative approaches to advance economic prosperity in distressed communities. EDA provides strategic investments on a competitive-merit-basis to support economic development, foster job creation, and attract private investment in economically distressed areas of the United States.

Award Ceiling: \$3,000,000

Authorization: EDA's Public Works and Economic Adjustment Assistance Programs

Website: <https://www.grants.gov/search-results-detail/321695>

Contact Information: State-Specific Economic Development Representatives. See EDA's website at <https://www.eda.gov/contact/>.

35. General Small Business Loans (7A)

Keywords: Economy, Business

Assistance Type: Loan

Agency: U.S. Small Business Administration

Purpose: The 7(a) loan program is the SBA's primary program for providing financial assistance to small businesses. The terms and conditions, like the guaranty percentage and loan amount, may vary by the type of loan. See the website for more information on the different types of Small Business Loans (7A).

Award Ceiling: Standard 7(a) loans have a maximum loan amount of \$5 million. SBA does not set a minimum loan amount.

Authorization: Small Business Act

Website: [7\(a\) loan program | U.S. Small Business Administration \(sba.gov\)](https://www.sba.gov/7a)

Contact Information: disastercustomerservice@sba.gov

36. Hazardous Materials Instructor Training Grants (HMIT)

Keywords: Technical Assistance, Workforce Development, Training, Education

Assistance Type: Discretionary Grant

Agency: U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration

Purpose: The Hazardous Materials Instructor Training (HMIT) program provides both training ("train-the-trainer") and funds to external organizations for the purposes of training hazardous materials (HAZMAT) employers and employees on the Hazardous Materials Regulations (HMR), especially in underserved communities. Eligible applicants are limited to 501(c)(3) nonprofit organizations; 501(c)(4) and for-profit organizations are not eligible to apply.

Award Ceiling: \$900,000

Authorization: N/A

Website: <https://www.grants.gov/search-results-detail/346970>

Contact Information: Carla Sheppard, carla.sheppard@dot.gov, (202) 366-2738, or Dwayne Cross, dwayne.cross@dot.gov, (202) 366-6688

37. Local Development Districts (LDD) Capacity Building Program

Keywords: Planning, Technical Assistance, Workforce Development, Training, Education

Assistance Type: Non-competitive Grant

Agency: Southeast Crescent Regional Commission (SCRC)

Purpose: The SCRC will invest \$1 million in a non-competitive grant program for the 62 LDDs located in the Southeast Crescent region. The LDD Capacity Building Program will provide grants to LDDs in FY 2023 to assist with planning, technical assistance, and capacity building activities in their communities. The primary objective of this grant program is to increase local access to funding sources and assist communities in the preparation to receive financial investments. By enhancing the operational capacity of LDDs, direct assistance to counties will be provided in distressed and transitional areas to enhance economic development, administration, and planning. Grants awarded under the LDD Capacity Building program may not exceed 80% of the administrative and planning expenses of the LDD applying for funding.

Award Ceiling: N/A

Authorization: N/A

Website: <https://www.transportation.gov/rural/grant-toolkit/local-development-districts-capacity-building-program>

Contact Information: grants@scrc.gov, or call (803) 851-3356

38. Local Development Districts Community Support Pilot Program

Keywords: Capacity-Building, Community Support, Workforce Development, Training, Education

Assistance Type: Non-competitive Grant

Agency: Delta Regional Authority

Purpose: The LDD Pilot Program will make fixed amount grants to LDDs in FY 2023 and FY 2024 to advance planning and technical assistance activities in their respective regions. Primary objectives of the pilot program are to enhance the operational capacity of LDDs and to increase the total amount of federal and state funding sources awarded and/or leveraged within the LDD's multicounty region of jurisdiction.

Award Ceiling: N/A

Authorization: CARES Act, American Rescue Plan Act, BIL, disaster supplemental bills, and the annual appropriations process

Website: <https://www.transportation.gov/rural/grant-toolkit/local-development-districts-community-support-pilot-program>

Contact Information: pilotprogram@dra.gov

39. Ocean Freight Reimbursement (OFR) Program

Keywords: Economy, Transportation, Trade, Agriculture

Assistance Type: Discretionary Grant

Agency: U.S. Agency for International Development

Purpose: To reimburse registered Private Voluntary Organizations' Ocean transport costs to transport donated commodities, such as medical supplies, agricultural equipment, educational supplies, and building equipment to responsible consignees in developing countries.

Award Ceiling: N/A

Authorization: Foreign Assistance Act, 1961

Website: <http://www.usaid.gov/work-usaid/get-grant-or-contract/ocean-transportation/ocean-freight-reimbursement-overview>

Contact Information: oceantransportation@usaid.gov or ofr@usaid.gov.

40. Planning and Local Technical Assistance Program

Keywords: Economic Development, Resilience, Planning Investments

Assistance Type: Discretionary Grant

Agency: U.S. Department of Commerce, Economic Development Administration

Purpose: Through its Planning and Local Technical Assistance programs, EDA assists eligible recipients in developing economic development plans and studies designed to build capacity and guide the economic prosperity and resiliency of an area or region.

Award Ceiling: N/A

Authorization: Sections 203 (42 U.S.C. § 3143) and 207 (42 U.S.C. § 3147) of Public Works and Economic Development Act

Website: [Funding Opportunity: Planning and Local Technical Assistance \(eda.gov\)](https://www.eda.gov/funding-opportunity/planning-and-local-technical-assistance)

Contact Information: <https://www.eda.gov/contact/>

41. States' Economic Development Assistance Program (SEDAP)

Keywords: Entrepreneurship, Distressed, Workforce Development, Investment Tool

Assistance Type: Competitive Grant

Agency: Delta Regional Authority

Purpose: The SEDAP is a competitive grant program designed to stimulate and support economic development activities across the Mississippi River Delta and Alabama Black Belt region. SEDAP provides direct investments for basic public infrastructure, transportation infrastructure, business development with an emphasis on entrepreneurship, and workforce development.

Award Ceiling: \$50,000 - \$500,000 annually

Authorization: Bipartisan Infrastructure Law

Website: <https://www.transportation.gov/rural/grant-toolkit/states-economic-development-assistance-program>

Contact Information: sedap.cif@dra.gov with the subject line: SEDAP NOFA

42. Strengthening Mobility and Revolutionizing Transportation (SMART) Grants

Keywords: Technology, Innovation, Smart City, Planning, Prototype

Assistance Type: Discretionary Grant

Agency: U.S. Department of Transportation, Office of the Under Secretary for Policy

Purpose: The SMART Grant program provides funding to eligible public sector agencies to conduct demonstration projects focused on advanced smart community technologies and systems to improve transportation efficiency and safety, among the other U.S. DOT Innovation Principles. The program seeks to fund purpose-driven innovation and focuses on building data and technology capacity and experience for state, local, and Tribal governments.

Award Ceiling: \$100 million annually for fiscal years 2022-2026

Authorization: Bipartisan Infrastructure Law, Section 25005

Website: <https://www.grants.gov/search-results-detail/349797>

Contact Information: smart@dot.gov; Roxanne Ledesma, (202) 774-8003

43. Supplemental Public Sector Training (SPST) Grant

Keywords: Technical Assistance, Workforce Development, Training, Education

Assistance Type: Discretionary Grant

Agency: U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration

Purpose: The SPST Grant furthers the purposes of the Hazardous Materials Emergency Preparedness (HMEP) grant program by funding national nonprofit fire service organizations, which then train instructors to provide training to public-sector hazmat responders with statutory responsibility to respond to hazardous materials incidents or those tasked with responding to accidents and incidents involving hazardous material. This is a “train-the-trainer” program. Eligible applicants are limited to 501(c)(3) nonprofit fire service organizations. Eligible uses are limited to training activities.

Award Ceiling: \$1,000,000

Authorization: 49 USC 5128: Authorization of appropriations

Website: <https://www.grants.gov/search-results-detail/338400>

Contact Information: Dwayne Cross, dwayne.cross@dot.gov, (202) 366-6688

44. University Transportation Center (UTC) Program 2022-2026 Grants

Keywords: Operations and Maintenance, Technical Assistance, Workforce Development, Research and Development, Climate and Sustainability; Accessibility, Security

Assistance Type: Discretionary Grant

Agency: U.S. Department of Transportation, Office of the Secretary of Transportation

Purpose: The UTC program provides funding to nonprofit institutions of higher education to establish and operate Tier 1, regional, or national UTCs in order to: advance transportation expertise and technology in the varied disciplines that comprise the field of transportation through education, research, and technology transfer activities, provide for a critical multimodal transportation knowledge base outside of the U.S. DOT, and address critical workforce needs and educate the next generation of transportation leaders with respect to the statutory research priorities. U.S. DOT seeks competitive grant applications from institutions of higher education located only in Colorado, Montana, North Dakota, South Dakota, Utah, or Wyoming to establish and operate the Region 8 UTC.

Award Ceiling: \$80-\$100 million per year between 2022-2026 to 35 UTCs

Authorization: The Infrastructure Investment and Jobs Act P. L. 117-58

Website: <https://www.grants.gov/search-results-detail/347374>

Contact Information: Amy Stearns, amy.stearns@dot.gov, (202) 366-4957

45. Women in Apprenticeship and Nontraditional Occupations (WANTO)

Keywords: Technical Assistance, Workforce Development, Woman in Occupations

Assistance Type: Discretionary Grant

Agency: U.S. Department of Labor, Womens Bureau

Purpose: The purpose of this program is to provide technical assistance to employers (which may include public-sector entities) and labor unions in the United States and its territories to encourage employment of women in Registered Apprenticeship and nontraditional occupations (A/NTO).

Award Ceiling: \$750,000

Authorization: N/A

Website: <https://www.grants.gov/search-results-detail/347530>

Contact Information: Marc Purvis, Purvis.Marc@dol.gov

46. Workforce Innovation and Opportunity Act (WIOA) Programs

Keywords: Economic Development, Training

Assistance Type: Formula Grant

Agency: U.S. Department of Labor, Employment and Training Administration

Purpose: To increase the employment, job retention, earnings, and career advancement of U.S. workers, supporting individuals in receiving skills, training, credentials, and related prerequisites for employment.

The WIOA Final Rules improve coordination between and among agencies so that workers and job seekers have more seamless access to a system of high-quality career services, education, and training through the one-stop service delivery system, known as the American Job Centers, and partners.

Award Ceiling: N/A

Authorization: The Workforce Innovation and Opportunity Act

Website: <https://www.dol.gov/agencies/eta/wioa>

Contact Information: DOL.WIOA@dol.gov

47. Workforce Opportunities for Rural Communities (WORC)

Keywords: Technical Assistance, Workforce Development, Economic Mobility, Marginalized Communities

Assistance Type: Discretionary Grant

Agency: U.S. Department of Labor, Employment and Training Administration

Purpose: The WORC Round 5: A Grant Initiative for the Appalachian, Delta, and Northern Border Regions Initiative provides grant funds to enable impacted communities to develop local and regional workforce development solutions aligned with existing economic development strategies and community partnerships to promote new, sustainable job opportunities and long-term economic vitality.

Award Ceiling: \$1,500,000

Authorization: The Workforce Innovation and Opportunity Act

Website: <https://www.grants.gov/search-results-detail/344181>

Contact Information: Sabrina Guerrier, DOL-ETA-DWG@dol.gov

(C) Energy

48. Advanced Research Projects Agency-Energy (ARPA-E)

Keywords: Energy, Technology, Research

Assistance Type: Grants, Technical Assistance

Agency: U.S. Department of Energy (DOE), Advanced Research Projects Agency - Energy

Purpose: ARPA-E projects advance high-potential, high-impact energy technologies that are too early for private-sector investment. These projects have the potential to radically improve U.S. economic security, national security, and environmental well-being. ARPA-E empowers America's energy researchers with funding, technical assistance, and market readiness.

Award Ceiling: Most funding amounts vary between \$500,000 and \$10,000,000 in financial assistance.

Authorization: America COMPETES Act of 2007

Website: <https://arpa-e.energy.gov/?q=programs/apply-for-funding>. For more information, visit the Frequently Asked Questions page: <https://arpa-e.energy.gov/faq>

Contact Information: <https://arpa-e.energy.gov/?q=arpa-e-site-page/contact-us>

49. Business Energy Investment Tax Credit (ITC)

Keywords: Energy, Technology, Tax Credit

Assistance Type: Financial Incentive, Corporate Tax Credit

Agency: U.S. Department of Energy and Internal Revenue Service (IRS)

Purpose: Federal corporate tax credit applicable to commercial, industrial, utility, agricultural sectors, and other entities like nonprofits and local and tribal governments. Eligible technologies for the ITC include solar technologies, fuel cells, small wind turbines, geothermal systems, microturbines, combined heat and power, and production tax credit-eligible technologies. This program is co-administered by the IRS and DOE.

Award Ceiling: Varies

Authorization: Section 48E of the Internal Revenue Code

Website: <https://www.energy.gov/eere/solar/federal-solar-tax-credits-businesses>,

<https://www.irs.gov/forms-pubs/about-form-3468>;

<http://programs.dsireusa.org/system/program/detail/658>

Contact Information: DOE, (202) 586-5000; IRS, (800) 829-1040

50. Department of Energy Unsolicited Proposal Office

Keywords: Energy, Research & Development, Unsolicited, Technology, Engineering

Assistance Type: Financial Incentive, Technical Assistance

Agency: U.S. Department of Energy, National Energy Technology Laboratory (NETL)

Purpose: Organizations and individuals are encouraged to submit proposals which are relevant to the DOE's research and development mission either in response to formal DOE solicitations and opportunity announcements or through self-generated unsolicited proposals. An unsolicited proposal (which would fall under a noncompetitive process) may be considered if it represents a unique or innovative idea that would not otherwise be eligible under a known agency competitive announcement.

Award Ceiling: Varies

Authorization: Title 48 CFR, Chapter 1, The Federal Acquisition Regulation (FAR) Subpart 15.6 Unsolicited Proposals; Title 48 CFR, Chapter 9, the Department of Energy Acquisition Regulation (DEAR) Subpart 915.6 Unsolicited Proposals; and 2 CFR, Part 200

Website: [DOE Unsolicited Proposals | netl.doe.gov](https://www.netl.doe.gov/DOE-UNSOLICITED-PROPOSALS)

Contact Information: DOEUSP@NETL.DOE.GOV

51. Renewable Electricity Production Tax Credit (PTC)

Keywords: Energy, Tax Credit, Electricity, Solar

Assistance Type: Financial Incentive, Corporate Tax Credit

Agency: U.S. Department of Energy and Internal Revenue Service

Purpose: The Federal renewable electricity PTC is an inflation-adjusted per-kilowatt-hour (kWh) tax credit for electricity generated by qualified energy resources and sold by the taxpayer to an unrelated person during the taxable year. The duration of the credit is 10 years after the date the facility is placed in service.

Award Ceiling: N/A

Authorization: Section 48E of the Internal Revenue Code

Website: [Federal Solar Tax Credits for Businesses | Department of Energy,
https://fas.org/sgp/crs/misc/R43453.pdf](https://fas.org/sgp/crs/misc/R43453.pdf)

Contact Information: DOE, (202) 586-5000; IRS, (800) 829-1040

(D) Resilience

52. Civil Infrastructure Systems (CIS)

Keywords: System Integration, Socio-technological-infrastructure Innovation, Design and Operations

Assistance Type: Grant

Agency: U.S. National Science Foundation (NSF)

Purpose: The CIS program supports fundamental and innovative research in the design, operation and management of civil infrastructure that contributes to creating smart, sustainable, and resilient communities at local, national, and international scales. This program focuses on civil infrastructure as a system in which interactions between spatially- and functionally- distributed components and intersystem connections exist. All critical civil infrastructure systems are of interest, including transportation, power, water, pipelines, and others.

Award Ceiling: N/A

Authorization: N/A

Website: <https://new.nsf.gov/funding/opportunities/civil-infrastructure-systems-cis>

Contact Information: Siqian Shen, sigshen@nsf.gov, (703) 292-7048

53. Coastal Resilience Grants Program

Keywords: Resilience, Coastal Communities, Extreme Weather, Climate

Assistance Type: Grant

Agency: U.S. Department of Commerce, National Oceanic & Atmospheric Administration

Purpose: To implement projects that build resilient U.S. coastal communities, economies, and ecosystems. Resilience is the ability to prepare and plan for, absorb, recover from, and successfully adapt. This program is intended to build resilience by reducing the risk to coastal communities, economies, and ecosystems from extreme weather events and climate-related hazards.

Award Ceiling: N/A

Authorization: 2023 National Coastal Resilience Fund; Inflation Reduction Act

Website: <https://coast.noaa.gov/resilience-grant/>

Contact Information: NOAA Office for Coastal Management <https://coast.noaa.gov/contactform/>

54. Continuing Authorities Program (CAP)

Keywords: Infrastructure, Community, Erosion, Storm Damage, Resilience, Ecosystem

Assistance Type: Project Development, Cost Share

Agency: U.S. Army Corps of Engineers

Purpose: To plan and implement projects of limited size, cost, scope, and complexity. Project purposes include streambank and shoreline erosion protection of public works and non-profit public services, beach erosion and hurricane and storm damage reduction, navigation improvements, shore damage prevention or mitigation caused by Federal navigation projects, beneficial uses of dredged material, flood control, aquatic ecosystem restoration, removal of obstructions, clearing channels for flood control, and project modifications for improvement of the environment.

Award Ceiling: N/A

Authorization: Section 14, Flood Control Act of 1946; Section 103, River and Harbor Act of 1962; Section 107, River and Harbor Act of 1960; Section 111, River and Harbor Act of 1968; Section 204, WRDA of 1992; Section 205, Flood Control Act of 1948; Section 206, WRDA of 1996; Section 208, Flood Control Act of 1954; Section 1135 WRDA 1986

Website: <http://www.nae.usace.army.mil/Missions/Public-Services/Continuing-Authorities-Program/>

Contact Information: U.S. Army Corps of Engineers - [District Office Program Manager](#)

55. Disaster Loan Assistance

Keywords: Resilience, Disaster, Economy

Assistance Type: Loan

Agency: U.S. Small Business Administration

Purpose: A Federal disaster loan for businesses, private nonprofits, homeowners, and renters whose property was damaged because of a declared disaster. To repair and rebuild non-farm, private sector disaster losses. (The disaster loan program is the only form of SBA assistance not limited to small businesses.)

Award Ceiling: N/A

Authorization: N/A

Website: [Apply For A Disaster Loan \(sba.gov\)](https://www.sba.gov/apply-for-a-disaster-loan)

Contact Information: If you need additional assistance or information, the Customer Service Center can be reached by phone at (800) 659-2955 or by email at disastercustomerservice@sba.gov.

56. Emergency Relief Program

Keywords: Transportation, Emergency, Disaster, Roads, Repair, Reconstruction

Assistance Type: Grant

Agency: U.S. Department of Transportation, Federal Highway Administration

Purpose: To provide funding for emergency repairs and permanent repairs on Federal-aid highways and roads on Federal lands that the Secretary finds have suffered serious damage because of natural disasters or catastrophic failure from an external cause.

Award Ceiling: Funded by a permanent authorization of \$100 million per year in contract authority from the Highway Account of the Highway Trust Fund. Funds are exempt from the Federal-aid highway obligation limitation. [23 U.S.C. 125(c)]

Authorization: §§ 11106, 11107 and 11519; 23 U.S.C. 120(e) and 125

Website: https://www.fhwa.dot.gov/bipartisan-infrastructure-law/er_fact_sheet.cfm;
<https://www.fhwa.dot.gov/programadmin/erelief.cfm>

Contact Information: Alex Appel, Alex.Appel@dot.gov, (202) 366-4652; Emergency Relief Team, hism_10@dot.gov

57. Flood Mitigation Assistance (FMA) Grant Program

Keywords: Resilience, Flood, Mitigation, Hazard, Extreme Weather

Assistance Type: Discretionary Grant, Cost-Match

Agency: U.S. Department of Homeland Security, Federal Emergency Management Agency

Purpose: To provide funding to states, territories, federally recognized tribes and local communities for projects and planning that reduces or eliminates long-term risk of flood damage to structures insured under the National Flood Insurance Program. FMA funding is also available for management costs. Funding is appropriated by Congress annually.

Award Ceiling: N/A

Authorization: National Flood Insurance Reform Act of 1994

Website: <https://www.fema.gov/grants/mitigation/floods>

Contact Information: FEMA GO Help Desk, femago@fema.dhs.gov, (877) 585-3242

58. Hazard Mitigation Grant Program (HMGP)

Keywords: Hazard, Mitigation, Disaster, Resilience

Assistance Type: Grant, Cost Share

Agency: U.S. Department of Homeland Security, Federal Emergency Management Agency

Purpose: FEMA's HMGP provides funding to state, local, tribal, and territorial governments so they can develop hazard mitigation plans and rebuild in a way that reduces, or mitigates, future disaster losses in their communities. This grant funding is available after a presidentially declared disaster. All state, local, tribal, and territorial governments must develop and adopt hazard mitigation plans to receive funding for hazard mitigation project application.

Award Ceiling: N/A

Authorization: Section 404 of the Stafford Act

Website: [Hazard Mitigation Grant Program \(HMGP\) | FEMA.gov](#)

Contact Information: Contact your appropriate [state](#), [tribe](#), or [territory](#) (applicant level) Hazard Mitigation Office

59. Humans, Disasters, and the Built Environment (HDBE)

Keywords: Resilience, Infrastructure, Disaster

Assistance Type: Grant

Agency: U.S. National Science Foundation

Purpose: The program supports fundamental, convergent research on how human activities and behaviors interact with the built environment to reduce or exacerbate the effects of natural hazards and disasters. The program foci are ongoing and emerging hazards to populations (individuals, households, businesses, organizations, and agencies) and built environments (critical infrastructures, physical and cyber spaces, and buildings). Successful proposals shall address all three elements (i.e., humans, disasters, and the built environment) and have the potential to contribute to theories or insights that hold over a broad range of scales, conditions, and sectors. Research funded through this program is expected to build a deeper understanding of human behaviors at the interface of engineering and society and inform how communities manage their risk and adapt to changing patterns in climate, extreme weather, and other hazards.

Award Ceiling: N/A

Authorization: N/A

Website: <https://new.nsf.gov/funding/opportunities/humans-disasters-built-environment-hdbe>

Contact Information: Daan Liang; dliang@nsf.gov; (703) 292-8360

60. Pre-Disaster Mitigation (PDM) Grant Program

Keywords: Resilience, Hazards

Assistance Type: Grant, Cost-Match

Agency: U.S. Department of Homeland Security, Federal Emergency Management Agency

Purpose: The PDM grant program makes federal funds available to state, local, tribal and territorial governments to plan for and implement sustainable cost-effective measures designed to reduce the risk to individuals and property from future natural hazards, while also reducing reliance on federal funding from future disasters.

Award Ceiling: N/A

Authorization: Section 203 of the Stafford Act

Website: <https://www.fema.gov/pre-disaster-mitigation-grant-program>

Contact Information: General questions about the Pre-Disaster Mitigation program can be directed to the appropriate [State Hazard Mitigation Officer \(SHMO\)](#) or [FEMA Regional Office](#) on FEMA.gov. You can also call the Hazard Mitigation Assistance Helpline at (866) 222-3580.

61. USACE Flood Risk Management Services (FRMS)

Keywords: Infrastructure, Community, Flood Management, Resilience

Assistance Type: Technical Assistance

Agency: U.S. Army Corps of Engineers

Purpose: The USACE FRMS works across the agency to focus the policies, programs, and expertise of USACE toward reducing overall flood risk. This includes the appropriate use and resiliency of structures such as levees and floodwalls, as well as promoting alternatives when other approaches (e.g., land acquisition, flood proofing, etc.) reduce the risk of loss of life, reduce long-term economic damages to the public and private sector, and improve the natural environment.

Award Ceiling: N/A

Authorization: Flood Control Act of 1960 (PL 86-645), Section 206

Website: <http://www.iwr.usace.army.mil/Missions/Flood-Risk-Management/Flood-Risk-Management-Program/>

Contact Information: U.S. Army Corps of Engineers - [District Office Program Manager](#)

(E) Safety and Security

62. Consolidated Rail Infrastructure and Safety Improvements (CRISI) Grants

Keywords: Security, Ports, Transportation, Infrastructure, Maritime, Rail, Highway

Assistance Type: Discretionary Grant

Agency: U.S. Department of Transportation, Federal Railroad Administration

Purpose: The CRISI grant program funds projects that improve the safety, efficiency, and reliability of intercity passenger and freight rail. Projects eligible for funding under this grant program include, but are not limited to, deployment of railroad safety technology, capital projects, highway-rail grade crossing improvement projects, rail line relocation and improvement projects, regional rail and corridor service development plans and environmental analyses, any project necessary to enhance multimodal connections or facilitate service integration between rail service and other modes, workforce development and training activities, and capital projects that address congestion challenges affecting rail service, reduce congestion and facilitate ridership growth along heavily traveled rail corridors, and/or improve short-line or regional railroad infrastructure. Eligible recipients include states, interstate compact, public agencies, political subdivisions of a state, Amtrak or other rail carriers that provide intercity rail passenger transportation, Class II, or Class III railroads, federally recognized Indian Tribes, university transportation centers engaged in rail-related research, and non-profit labor organization representing a class of rail employees.

Award Ceiling: The FY23-24 NOFO should be available in January of 2024, but the total funding available for FY22-23 was \$1.4 billion.

Authorization: Section 11301 of the Fixing America's Surface Transportation (FAST) Act, Pub. L. 114-94 (2015); 49 U.S.C. § 22907

Website: <https://railroads.dot.gov/grants-loans/competitive-discretionary-grant-programs/consolidated-rail-infrastructure-and-safety-2>

Contact Information: For questions about an FRA Notice of Funding Opportunity, email fra-nofo-support@dot.gov.

63. Homeland Security Grant Program (HSGP)

Keywords: Security, Preparedness

Assistance Type: Formula Grant

Agency: U.S. Department of Homeland Security, Federal Emergency Management Agency

Purpose: The Homeland Security Grant includes a suite of risk-based grants to assist state, local, tribal, and territorial efforts in preventing, protecting against, mitigating, responding to, and recovering from acts of terrorism and other threats. This grant provides grantees with the resources required for implementation of the National Preparedness System and working toward the National Preparedness Goal of a secure and resilient nation.

Award Ceiling: Total funding available in FY 2023: \$1.12 billion

Authorization: Section 2002 of the *Homeland Security Act of 2002*, as amended (Pub. L. No. 107-296) (6 U.S.C. § 603)

Website: <https://www.fema.gov/homeland-security-grant-program>

Contact Information: FEMA has assigned state-specific Preparedness Officers for the HSGP. If you do not know your Preparedness Officer, please contact the FEMA Grants Information Desk by e-mail at fema-grants-news@fema.dhs.gov or by phone at (800) 368-6498, Monday through Friday, 9 a.m. – 5 p.m. ET.

64. NOAA Physical Oceanographic Real Time System (PORTS®)

Keywords: Environment, Ocean, Marine, Ports, Transportation, Safety, Efficiency

Assistance Type: Direct Congressional appropriation, Cost Share

Agency: U.S. Department of Commerce, National Oceanic & Atmospheric Administration

Purpose: A decision support tool that improves the safety and efficiency of maritime commerce and coastal resource management. The Physical Oceanographic Real-Time System (PORTS®) collects and disseminates real time observations of water levels, currents, salinity, bridge air gap and meteorological parameters that mariners need to navigate safely. PORTS is a domestic, cost-shared partnership program between NOAA and the maritime community in and around busy seaports across the United States. Each individual PORTS contains a different number of stations and sensors within them, driven by local stakeholder needs and requirements. All real-time PORTS information is quality controlled by NOAA 24 hours a day, 365 days a year, to ensure that suspect data is not disseminated. In operation since 1991, PORTS has a solid reputation among the maritime community as a highly trusted source for real-time information to support safe maritime commerce.

Award Ceiling: N/A

Authorization: [Coast and Geodetic Survey Act \(CGSA\) of 1947](#), 33 U.S.C. § 883a, 33 U.S.C. § 883e

Website: https://tidesandcurrents.noaa.gov/ports_info.html

Contact Information: NOAA PORTS® Program – Center for Operational Oceanographic Products & Services (NOAA / National Ocean Service), ports_program@noaa.gov, (240) 620-6919

65. Port Security Grant Program (PSGP)

Keywords: Security, Infrastructure, Ports, Training, Maritime, Resilience

Assistance Type: Grant, Cost-Match

Agency: U.S. Department of Homeland Security, Federal Emergency Management Agency

Purpose: To strengthen the Nation’s critical infrastructure against risks associated with potential terrorist attacks and improve port-wide maritime security risk management; enhance maritime domain awareness; support maritime security training and exercises; and maintain or reestablish maritime security mitigation protocols that support port recovery and resiliency capabilities.

Award Ceiling: Total funding for the PSGP program is \$100,000,000.

Authorization: Section 102 of the Maritime Transportation Security Act of 2002, as amended, (Pub. L. No. 107-295) (46 U.S.C. § 70107), American recovery and Reinvestment Act of 2009

Website: [Port Security Grant Program | FEMA.gov](#)

Contact Information: Duane Davis, Duane.Davis@FEMA.dhs.gov, (202) 786-9533

66. Secure and Trustworthy Cyberspace (SaTC)

Keywords: Cyber-Infrastructure, Security, Privacy

Assistance Type: Grant

Agency: U.S. National Science Foundation

Purpose: The SaTC program welcomes proposals that address cybersecurity and privacy and draw on expertise in one or more of these areas: computing; communication and information sciences; engineering; economics; education; mathematics; statistics; and social and behavioral sciences. Proposals that advance the field of cybersecurity and privacy within a single discipline or interdisciplinary efforts that span multiple disciplines are both encouraged.

Award Ceiling: Dependent on project, there can be up to \$1,200,000 with durations of up to four years. In addition, some years large, focused opportunities allow awards up to \$10M with durations of up to five years.

Authorization: N/A

Website: https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504709

Contact Information: For general SaTC questions contact satc@nsf.gov; Jeremy Epstein, jepstein@nsf.gov, (703) 292-8950

67. Transit Security Grant Program (TSGP)

Keywords: Security, Public Transportation, Infrastructure, Security, Maritime, Resilience

Assistance Type: Competitive Grant

Agency: U.S. Department of Homeland Security, Federal Emergency Management Agency

Purpose: This grant provides funding to eligible public transportation systems (which include intra-city bus, ferries and all forms of passenger rail) to protect critical transportation infrastructure and the travelling public from terrorism, and to increase transportation infrastructure resilience.

Award Ceiling: Total funding available for fiscal year 2023: \$93 million

Authorization: Authorized by Section 1406 of the *Implementing Recommendations of the 9/11 Commission Act of 2007* (Pub. L. No. 110-53) (6 U.S.C. 1135). Appropriated by the Department of Homeland Security Appropriations Act, 2017 (Pub. L. No. 115-31).

Website: <https://www.fema.gov/transit-security-grant-program>

Contact Information: FEMA has assigned state-specific Preparedness Officers. If you do not know your Preparedness Officer, please contact the FEMA Grants Information Desk by e-mail at fema-grants-news@fema.dhs.gov or by phone at (800) 368-6498, Monday through Friday, 9 a.m. – 5 p.m. ET.

(F) Environment and Sustainability

68. Clean Ports Program

Keywords: Ports, Zero-emission, Clean

Assistance Type: Competitive Grant

Agency: U.S. Environmental Protection Agency

Purpose: To fund zero-emission port equipment and infrastructure, as well as climate and air quality planning at U.S. ports. This new funding program will build on EPA's Ports Initiative that helps our nation's ports, a critical part of our infrastructure and supply chain, address public health and environmental impacts on surrounding communities. EPA anticipates this new funding opportunity will become available for application through a NOFO released in late winter 2024 (~February 2024).

Award Ceiling: \$3 billion total, including \$750 million to be spent in nonattainment areas

Authorization: Inflation Reduction Act of 2022

Website: [Clean Ports Program | US EPA](#)

Contact Information: cleanports@epa.gov

69. Clean Vessel Act (CVA) Grant

Keywords: Environment, Resilience, Ports

Assistance Type: Discretionary Grant

Agency: U.S. Department of the Interior, U.S. Fish and Wildlife Service (FWS)

Purpose: The Clean Vessel Act Grant Program provides grant funds to the states, the District of Columbia and insular areas for the construction, renovation, operation, and maintenance of pump out stations and waste reception facilities for recreational boaters and for educational programs that inform boaters of the importance of proper disposal of their sewage.

Award Ceiling: N/A

Authorization: Clean Vessel Act of 1992, Section 5604, Public Law 102-587, Subtitle F; 16 U.S.C. 777c, and the Safe, Accountable, Flexible, Efficient Transportation Equity Act, Public Law 109-059.

Website: [Clean Vessel Act | U.S. Fish & Wildlife Service \(fws.gov\)](#)

Contact Information: Brad Gunn, Brad_Gunn@fws.gov, (703) 785-3829

70. Coastal Program

Keywords: Environment, Fish, Wildlife, Coast, Habitat, Conservation

Assistance Type: Discretionary, Cooperative Agreement

Agency: U.S. Department of the Interior, U.S. Fish & Wildlife Service

Purpose: To support restoration and improvement of coastal habitat on public and private lands for the benefit of Federal trust species. The Coastal Program is a voluntary, incentive-based program that provides technical and financial assistance to a diversity of conservation partners to conduct conservation projects on public and private lands.

Award Ceiling: N/A

Authorization: Fish and Wildlife Coordination Act, Fish and Wildlife Act of 1956, National Wildlife Refuge System Improvement Act of 1997

Website: [grants.gov/search-results-detail/350418](https://www.fws.gov/search-results-detail/350418), <https://www.fws.gov/program/coastal>

Contact Information: Chris Darnell, chris_darnell@fws.gov

71. Congestion Mitigation & Air Quality Improvement (CMAQ) Program

Keywords: Air Quality, Congestion, Transportation, Environment

Assistance Type: Formula Grant

Agency: U.S. Department of Transportation, Federal Highway Administration

Purpose: To provide a flexible funding source to State and local governments for transportation projects and programs to help meet the requirements of the Clean Air Act. Funding is available to reduce congestion and improve air quality for areas that do not meet the National Ambient Air Quality Standards for ozone, carbon monoxide, or particulate matter (nonattainment areas) and for former nonattainment areas that are now in compliance (maintenance areas).

Award Ceiling: Total funding available is \$2.5 billion

Authorization: Bipartisan Infrastructure Law

Website: [Bipartisan Infrastructure Law - Congestion Mitigation and Air Quality \(CMAQ\) Improvement Program Fact Sheet | Federal Highway Administration \(dot.gov\)](#)

Contact Information: Mark Glaze, mark.glaze@dot.gov, (202) 366-4053; Karen Perritt, karen.perritt@dot.gov, (202) 366-9066; Edward Dancausse, edward.dancausse@dot.gov, (919) 747-7026

72. Cooperative Endangered Species Conservation Fund / Section 6 Grants (CESCF)

Keywords: Resilience, Environment, Endangered, Wildlife, Habitat, Conservation

Assistance Type: Grant, Cost-Match

Agency: U.S. Department of the Interior, U.S. Fish & Wildlife Service

Purpose: To participate in a wide array of voluntary conservation projects for candidate, proposed, and listed species. The program provides funding to States and Territories for species and habitat conservation actions on non-federal lands. States and territories must contribute a minimum non-federal match of 25 percent of the estimated project costs, or 10 percent when two or more states or territories implement a joint project.

Award Ceiling: N/A

Authorization: Endangered Species Act, 1973 (as amended 1978, 1982, 1988, and 2004)

Website: [Cooperative Endangered Species Conservation Fund | What We Do | U.S. Fish & Wildlife Service \(fws.gov\)](#)

Contact Information: Kelly Niland, Kelly_Niland@fws.gov, (703) 358-2492

73. Diesel Emissions Reduction Act (DERA) Funding Assistance Program

Keywords: Transportation, Environment, Emissions, Maritime, Diesel

Assistance Type: Discretionary Grant

Agency: U.S. Environmental Protection Agency

Purpose: To address diesel emissions and protect public health and air quality, EPA is authorized under DERA to offer funding assistance to accelerate the upgrade, retrofit, and turnover of the legacy diesel fleet. Seventy percent of the DERA appropriation is to be used for national competitive grants and rebates to fund projects that use EPA or California Air Resources Board verified or certified diesel emission reduction technologies. Thirty percent of the DERA appropriation is allocated to the states and territories to fund programs for diesel emissions reduction projects. Base funding is distributed to states and territories using a formula based on overall participation. Additional incentive funding is available to states and territories that provide matching funds.

Award Ceiling: The amount of Federal funding requested by an applicant must not exceed the amount specified for each Region specific in the NOFO.

Authorization: Diesel Emissions Reduction Act, 2010.

Website: <https://epa.gov/dera>

Contact Information: DERA Helpline, dera@epa.gov (877) 623-2322

74. Diesel Emissions Reduction Act (DERA) Tribal and Insular Area Grants

Keywords: Environment, Resilience, Transportation, Environment, Emissions, Maritime, Diesel

Assistance Type: Competitive Grant

Agency: U.S. Environmental Protection Agency

Purpose: EPA's Office of Transportation and Air Quality solicits applications nationwide for Tribal and Insular Area projects that achieve significant reductions in diesel emissions and diesel emissions exposure, particularly from fleets located in areas designated as having poor air quality.

Award Ceiling: The amount of Federal funding requested by an applicant must not exceed the amount specified in the NOFO.

Authorization: Diesel Emissions Reduction Act, 2010.

Website: <https://epa.gov/dera/tribal-insulararea>

Contact Information: DERA Helpline, dera@epa.gov, (877) 623-2322

75. Endangered Species Conservation - Recovery Implementation Funds

Keywords: Resilience, Endangered, Environment

Assistance Type: Discretionary Grant, Cooperative Agreement

Agency: U.S. Department of the Interior, U.S. Fish & Wildlife Service

Purpose: To secure information about endangered or threatened species listed under the Endangered Species Act, to aid in the recovery of these species, and to help conserve the ecosystems upon which these species depend. The FWS and National Marine Fisheries Service (NMFS), which is part of the U.S. Department of Commerce, share Endangered Species Act responsibilities for several species such as sea turtles. FWS has responsibility for sea turtles when they are on land, and NMFS has responsibility for sea turtles when they are in the water. Projects for NMFS-managed species are not included in this funding opportunity. This Recovery Implementation funding opportunity is intended for projects that will contribute to the recovery of FWS-managed endangered and threatened species and is limited to projects carrying out actions described in a species draft or final recovery plan, in the species' Recovery Implementation Strategy, or actions recommended in a completed 5-year status review of the species. For example: securing scientific information about endangered or threatened species, implementing restoration actions that will lead to delisting of a species, help prevent extinction of a species, or aid in the recovery of a species.

Award Ceiling: \$2,000,000

Authorization: Endangered Species Act, 1973 (as amended 1978, 1982, 1988, and 2004)

Website: <https://sam.gov/fal/5ddeac1a7ec4430ea61c8e359e650438/view>

Contact Information: Patrick McKenney, FWS_ES_GRANTS@fws.gov

76. Marine Debris Removal Grant

Keywords: Environment, Natural Resources, Science, Research

Assistance Type: Cooperative Agreement, Competitive Grant

Agency: U.S. Department of Commerce, National Oceanic & Atmospheric Administration

Purpose: The NOAA Marine Debris Program provides funding to support the removal of large marine debris throughout the coastal United States, Great Lakes, territories, and Freely Associated States. These removal projects should focus on large marine debris, including abandoned and derelict vessels, derelict fishing gear, and other debris that is generally unable to be collected by hand.

Award Ceiling: Up to \$24 million

Authorization: Bipartisan Infrastructure Law

Website: <https://marinedebris.noaa.gov/funding-opportunities/fy24-noaa-marine-debris-removal-under-bipartisan-infrastructure-law-applicant>

Contact Information: Tom Barry, tom.barry@noaa.gov, (240) 533-0425

77. Maritime Environmental and Technical Assistance (META) Program

Keywords: Environment, Research, Maritime

Assistance Type: Cooperative Agreement, Technical Assistance

Agency: U.S. Department of Transportation, Maritime Administration

Purpose: The META program promotes the research, demonstration, and development of emerging technologies, practices, and processes that improve maritime industrial environmental sustainability. Since its inception, META's primary focus areas have been control of aquatic invasive species transported by vessels, and reduction in vessel and port air emissions. These two areas present significant continuing challenges for ship owners and operators, the regulatory community, and the public. As other maritime environmental issues emerge, additional areas of study may be included.

Award Ceiling: N/A

Authorization: N/A.

Website: <https://www.maritime.dot.gov/innovation/meta/maritime-environmental-and-technical-assistance-meta-program>

Contact Information: META@dot.gov

78. Maritime Heritage Grants

Keywords: Education, Preservation, Maritime, History

Assistance Type: Grant, Cost-Match

Agency: U.S. Department of the Interior, National Park Service

Purpose: The National Maritime Heritage Grant Program is a national, competitive matching grants program which provides competitive funding for education and preservation subgrant programs related to the maritime history and heritage of the United States. Eligible applicants are the 59 State Historic Preservation Offices (SHPOs) and the National Trust for Historic Preservation.

Award Ceiling: \$750,000

Authorization: The grant program is authorized by the National Maritime Heritage Act of 1994. Amounts for the program are derived from the proceeds of disposed obsolete vessels of the National Defense Reserve Fleet; and transferred to the NPS by the Maritime Administration.

Website: <http://www.nps.gov/maritime/grants/apply.htm>

Contact Information: Megan Rosengrant, Maritime Heritage Grants Management Specialist, Park History Program; maritime_grants@nps.gov

79. National Coastal Wetlands Conservation Grant Program

Keywords: Environment, Wetland, Conservation, Ecosystem

Assistance Type: Grant, Cost-Match

Agency: U.S. Department of the Interior, U.S. Fish & Wildlife Service

Purpose: To provide coastal and Great Lakes states, and U.S. territories to protect, restore and enhance coastal wetland ecosystems and associated uplands. The grants are funded through the Sport Fish Restoration and Boating Trust Fund, which is supported by excise taxes on fishing equipment and motorboat fuel.

Award Ceiling: \$1,000,000 annually

Authorization: Coastal Wetlands Planning, Protection, and Restoration Act (Section 305, Title III, Public Law 101-646, 16 U.S.C. 3954)

Website: <https://www.fws.gov/coastal/CoastalGrants/>

Contact Information: National Coordinators and Regional Contacts listed on website above.

80. Pollution Prevention (P2) Grant Programs

Keywords: Environment, Pollution, Prevention

Assistance Type: Grant, Cooperative Agreement with Cost-Match

Agency: U.S. Environmental Protection Agency

Purpose: P2 grants provide technical assistance to businesses to help them develop and adopt source reduction practices (also known as “pollution prevention” or “P2”). P2 means reducing or eliminating pollutants from entering any waste stream or otherwise released into the environment prior to recycling, treatment, or disposal. EPA’s Pollution Prevention program currently offers five grant programs: Bipartisan Infrastructure Law Pollution Prevention Grant, Pollution Prevention Grant: Environmental Justice in Communities, Pollution Prevention Grant: Environmental Justice Through Safer and More Sustainable Products, Reducing Embodied Greenhouse Gas Emissions for Construction Materials and Products, and Source Reduction Assistance Grant.

Award Ceiling: Varies per type of grant

Authorization: Pollution Prevention Act of 1990

Website: [Grant Programs for Pollution Prevention | US EPA](#)

Contact Information: P2 Hub Helpline, p2hub@epa.gov, (202) 566-0799

81. Source Reduction Assistance Grant Program (SRA)

Keywords: Environment, Pollution, Reduction

Assistance Type: Grant, Cooperative Agreement with Cost-Match

Agency: U.S. Environmental Protection Agency

Purpose: To support research, investigation, experiments, surveys, study, demonstration, education and training using source reduction approaches (also known as P2 or pollution prevention).

Award Ceiling: \$1,135,000 in federal funds awards ranging from \$40,000 to \$250,000.

Authorization: Pollution Prevention Act of 1990

Website: [Source Reduction Assistance Grants | US EPA](#)

Contact Information: P2 Hub Helpline, p2hub@epa.gov, (202) 566-0799

82. Targeted Airshed Grant Program

Keywords: Environment, Pollution

Assistance Type: Competitive Grant

Agency: U.S. Environmental Protection Agency

Purpose: This program will assist local, state and/or tribal air control agencies in developing plans, conducting demonstrations, and implementing projects to reduce air pollution in nonattainment areas that EPA determines are the top five most polluted areas relative to ozone (O³) or annual average fine particulate matter (PM_{2.5}), or 24-hour PM_{2.5} National Ambient Air Quality Standards (NAAQS). The overall goal of the Targeted Air Shed Grant program is to reduce air pollution in the Nation’s areas with the highest levels of ozone and PM_{2.5} ambient air concentrations.

Award Ceiling: Total funding available is \$10,000,000.

Authorization: 2017 Appropriations Act and subsequent appropriations acts

Website: <https://www.epa.gov/air-quality-implementation-plans/targeted-airshed-grants-program>

Contact Information: Tim Roberts, roberts.timothy-p@epa.gov, (202) 564-6004

83. Wetland Program Development Grants (WPDGs)

Keywords: Environment, Wetland

Assistance Type: Grant, Cost-Match

Agency: U.S. Environmental Protection Agency

Purpose: Developing or refining state/Tribal/territory/local government wetland programs by promoting the coordination and acceleration of research, investigations, experiments, training, demonstrations, surveys, and studies relating to the causes, effects, extent, prevention, reduction, and elimination of water pollution.

Award Ceiling: \$250,000 to \$500,000 depending on the Request for Application

Authorization: Clean Water Act, Section 104(b)(3)

Website: http://water.epa.gov/grants_funding/wetlands/grantguidelines/index.cfm
[National Wetland Program Development Grant Request for Applications | US EPA](#)

Contact Information: Myra Price, price.myra@epa.gov, (202) 566-1225;
<https://www.epa.gov/wetlands/forms/contact-us-about-wetlands>

(G) Research and Development

84. Biological Oceanography (BioOce)

Keywords: Environment, Biology, Ocean, Great Lakes

Assistance Type: Discretionary Grant

Agency: U.S. National Science Foundation

Purpose: The Biological Oceanography Program supports fundamental research in biological oceanography and marine ecology in environments ranging from estuarine, coastal, and open ocean systems to the deep sea, as well as in the Great Lakes. Proposals submitted to the Program must have a compelling context in population, community, or ecosystem ecology or oceanography, as well as address topics that will contribute significantly to the understanding of marine or Great Lakes ecosystems.

Award Ceiling: N/A

Authorization: N/A

Website: [Biological Oceanography \(BioOce\) | NSF - National Science Foundation](#)

Contact Information: Jayne Gardiner, jgardine@nsf.gov, (703) 292-4828; Ricardo M. Letelier, rletelie@nsf.gov, (703) 292-7356; Cynthia L. Suchman, csuchman@nsf.gov, (703) 292-2092; Daniel J. Thornhill, dthornhi@nsf.gov, (703) 292-8143

85. Chemical Oceanography

Keywords: Environment, Ocean, Marine, Science, Research

Assistance Type: Discretionary Grant

Agency: U.S. National Science Foundation

Purpose: The Chemical Oceanography Program supports research into the chemistry of the oceans and the role of the oceans in global geochemical cycles. Areas of interest include chemical composition, speciation, and transformation; chemical exchanges between the oceans and other components of the Earth system; internal cycling in oceans, seas, and estuaries; and the use of measured chemical distributions as indicators of physical, biological, and geological processes.

Award Ceiling: N/A

Authorization: N/A

Website: https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=11698

Contact Information: Henrietta Edmonds, hedmonds@nsf.gov, (703) 292-7427. Additional contact information listed on the website above.

86. Cyber-Physical Systems (CPS)

Keywords: Cyber Infrastructure, Security, Resilience, Research

Assistance Type: Discretionary Grant

Agency: U.S. National Science Foundation

Purpose: Cyber-physical systems are engineered systems that are built from, and depend upon, the seamless integration of computation and physical components. To develop the core system science needed to engineer complex CPS which people can use or interact with and depend upon. Some of these may require high-confidence or provable behaviors. The program aims to foster a research community committed to advancing research and education in CPS and to transitioning CPS science and technology into engineering practice. By abstracting from the particulars of specific systems and application domains, the CPS program seeks to reveal cross-cutting fundamental scientific and engineering principles that underpin the integration of cyber and physical elements across all application sectors. To expedite and accelerate the realization of cyber-physical systems in a wide range of applications, the CPS program also supports the development of methods, tools, and hardware and software components based upon these

cross-cutting principles, along with validation of the principles via prototypes and testbeds. We have also seen a convergence of CPS technologies and research thrusts that underpin Smart & Connected Communities and the Internet of Things (IoT). These domains offer new and exciting challenges for foundational research and provide opportunities for maturation at multiple time horizons.

Award Ceiling: N/A

Authorization: N/A

Website: https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503286.

Contact Information: David Corman, dcorman@nsf.gov, (703) 292-8754; other contacts listed on website listed above

87. ERDC Broad Agency Announcement (BAA)

Keywords: Infrastructure, Ports, Maritime, Wetlands, Dredging

Assistance Type: Discretionary Grant

Agency: U.S. Army Corps of Engineers, Engineer Research & Development Center (ERDC)

Purpose: To conduct research in hydraulics, dredging, coastal engineering, instrumentation, oceanography, remote sensing, geotechnical engineering, earthquake engineering, soil effects, vehicle mobility, self-contained munitions, military engineering, geophysics, pavements, protective structures, aquatic plants, water quality, dredged material, treatment of hazardous waste, wetlands, and other various related processes.

Award Ceiling: N/A

Authorization: Water Resources Reform and Development Act, 2014

Website: <https://www.erdcenter.org/u-s-army-engineer-research-and-development-center-broad-agency-announcement/>,

https://www.fbo.gov/index?s=opportunity&mode=form&id=e6ba2a5670c2191885b176606856288b&tab=core&_cview=0

Contact Information: Jasmine Powell, jpowell5@cdc.gov, (404) 498-3363R ERDC-BAA@usace.army.mil

88. Integrated Ocean Observing System (IOOS) Ocean Technology Transition (OTT) Project

Keywords: Environment, Ocean Observing, Monitoring, Coast

Assistance Type: Discretionary Grant

Agency: U.S. Department of Commerce, National Oceanic & Atmospheric Administration

Purpose: The IOOS Ocean Technology Transition program sponsors the transition of emerging marine observing technologies, for which there is an existing operational requirement and a demonstrated commitment to integration and use by the ocean observing community, to operational mode.

Award Ceiling: In FY 2023-2025, it is estimated that up to \$7.5 million will be available

Authorization: The Integrated Coastal and Ocean Observation System Act of 2009, 33 U.S.C 3601-3610.

Website: <https://ioos.noaa.gov/project/ocean-technology-transition/#projectinfo>

Contact Information: Jennifer Hinden, Jennifer.hinden@noaa.gov; Tiffany C. Vance, tiffany.c.vance@noaa.gov

89. Marine Mammal Commission Research Program

Keywords: Marine, Ocean, Environment

Assistance Type: Discretionary Grant

Agency: Marine Mammal Commission

Purpose: The Marine Mammal Commission carries out a small grant program that supports projects aimed at meeting the conservation and protection goals of the [Marine Mammal Protection Act \(MMPA\)](#). The Commission's Research Program includes all relevant activities including basic and applied research, workshops, literature reviews, compilations of expert opinion, and drafting manuscripts or reports. The Research Program is administered by the Commission's Scientific Program staff in consultation with [the Commissioners and the Committee of Scientific Advisors on Marine Mammals](#). The research program awards grants based on proposals submitted in response to an annual call for proposals which may include specific research topics identified by the Commission in a given year. The amount of funds available varies from year to year, depending on the overall congressional appropriations for the Commission.

Award Ceiling: N/A

Authorization: Marine Mammal Conservation Act 1972

Website: <https://www.mmc.gov/grants-and-research-survey/current-funding-opportunities/>

Contact Information: Dee Allen, Scientific Program Officer, dallen@mmc.gov, (301) 504-0087

90. NOAA Broad Agency Announcement (BAA)

Keywords: Environment, Research, Education, Outreach

Assistance Type: Cooperative Agreement Grant

Agency: U.S. Department of Commerce, National Oceanic & Atmospheric Administration

Purpose: To request applications for special projects and programs associated with NOAA's strategic plan and mission goals, as well as to provide the public with information and guidelines on how NOAA will select proposals and administer discretionary Federal assistance under this BAA. This BAA is a mechanism to encourage research, education and outreach, innovative projects, or sponsorships that are not addressed through our competitive discretionary programs. It is not a mechanism for awarding congressionally directed funds or existing funded awards.

Award Ceiling: N/A

Authorization: 15 U.S.C. 1540; 15 U.S.C. 2901 et. seq.; 16 U.S.C. 661; 16 U.S.C. 1456c; 33 U.S.C. 883a-d; 33 USC 893a; 33 U.S.C. 1442; 49 U.S.C. 44720(b).

Website: [Microsoft Word - BAA-NOAA-NFA-NFAPO-2021-2006626 -1 Oct 20 Incl. Recent FALD Comments 9.21.20.docx](#); <https://www.fisheries.noaa.gov/grant/fy-2018-2020-broad-agency-announcement>

Contact Information: Lamar Dwayne Revis, lamar.revis@noaa.gov, (301) 628-1308

91. Ocean Drilling Program (ODP)

Keywords: Energy, Science, Marine, Ocean, Research

Assistance Type: Discretionary Grant

Agency: U.S. National Science Foundation

Purpose: To advance basic research in the marine geosciences and is supported by the NSF and its international partners. The NSF Ocean Drilling Program will occasionally provide support for small projects to be conducted during the expedition moratorium period to increase the scientific value of, and facilitate further research on, the expedition core, data, and associated samples. Proposals fitting the criteria outlined on the program website may be submitted at any time prior to the expedition.

Award Ceiling: \$18,000

Authorization: N/A

Website: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13524

Contact Information: James F. Allan, jallan@nsf.gov, (703) 292-8144; Kevin T. Johnson, ktjohnso@nsf.gov, (703) 292-7442

92. Ocean Technology & Interdisciplinary Coordination (OTIC) Program

Keywords: Environment, Technology, Ocean, Marine, Science, Research

Assistance Type: Discretionary Grant

Agency: U.S. National Science Foundation

Purpose: To develop instrumentation that has broad applicability to ocean science research projects and that enhance observational, experimental, or analytical capabilities of the ocean science research community.

Award Ceiling: N/A

Authorization: N/A

Website: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=12724

Contact Information: Kandace S. Binkley, kbinkley@nsf.gov, (703) 292-7577

93. Oceanographic Facilities & Equipment Support

Keywords: Environment, Ocean, Science

Assistance Type: Discretionary Grant

Agency: U.S. National Science Foundation

Purpose: These awards are made for the procurement, conversion and/or upgrade, enhancement, or annual operation of platforms in the ocean, coastal and near-shore waters, and Great Lakes. Awards are generally directed specifically to support facilities that lend themselves to shared use within the broad range of Federally supported research and education programs.

Award Ceiling: N/A

Authorization: The National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75)

Website: https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504848

Contact Information: James S. Holik, jholik@nsf.gov, (703) 292-7711

94. Operations Engineering (OE) Program

Keywords: Research, Science, Modeling, Data, Environment

Assistance Type: Grant

Agency: U.S. National Science Foundation

Purpose: The OE program supports fundamental research on advanced analytical methods for improving operations in complex decision-driven environments. Analytical methods include, but are not limited to, deterministic and stochastic modeling, optimization, decision and risk analysis, data science, and simulation. Methodological research is highly encouraged but must be motivated by problems that have potential for high impact in engineering applications. Application domains of particular interest to the program arise in commercial enterprises (e.g., production/manufacturing systems and distribution of goods, delivery of services), the public sector/government (e.g., public safety and security), and public/private partnerships (e.g., health care, environment, and energy). The program also welcomes operations research in new and emerging domains and addressing systemic societal or technological problems. The OE program particularly values cross-disciplinary proposals that leverage application-specific expertise with strong quantitative analysis in a decision-making context. Proposals for methodological research that are not strongly motivated by high-potential engineering applications are not appropriate for this program.

Award Ceiling: N/A

Authorization: N/A

Website: https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505202

Contact Information: Georgia Ann Klutke, gaklutke@nsf.gov, (703) 292-2443; Reha M. Uzsoy, ruzsoy@nsf.gov, (703) 292-8360

95. Physical Oceanography

Keywords: Environment, Ocean, Marine

Assistance Type: Discretionary Grant

Agency: U.S. National Science Foundation

Purpose: To support research on a wide range of topics associated with the structure and movement of the ocean, with the way in which it transports various quantities, with the way the ocean's physical structure interacts with the biological and chemical processes within it, and with interactions between the ocean and the atmosphere, solid earth and ice that surround it.

Award Ceiling: N/A

Authorization: N/A

Website: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=12729

Contact Information: Baris M. Uz, bmuz@nsf.gov, (703) 292-4557. Additional contact information listed on website above.

Archived Past Opportunities

96. Advanced Technology Solutions for Unconventional Oil and Gas Development

Keywords: Energy, Technology

Assistance Type: Cooperative Agreement

Agency: U.S. Department of Energy, National Energy Technology Laboratory

Purpose: To select and award projects that focus on critical gaps in our understanding of reservoir behavior and optimal completion, stimulation, and wastewater disposal strategies to increase and enable more cost-efficient and environmentally sound recovery from shale gas, tight oil, and tight gas resources. This can be achieved by developing technological solutions that enable effective resource recovery from fewer and less environmentally impactful wells. This announcement is a critical component of the Department of Energy portfolio to advance the environmentally-sound development of domestic unconventional oil and natural gas resources.

Award Ceiling: \$8,000,000

Authorization: Public Law 95-91 DOE Organization Act of 1977, as amended by Public Law 109-58 Energy Policy Act 2005. Federal Nonnuclear Energy Research and Development Act of 1974, Public Law 93-557; Energy Policy and Conservation Act, Public Law 94-163.

Website: <https://energy.gov/indianenergy/funding>, <https://www.netl.doe.gov/node/274>

Contact Information: Jodi L. Collins, jodi.collins@netl.doe.gov

97. Coastal & Estuarine Land Conservation Program (CELCP)

Keywords: Environment, Great Lakes, Conservation, Coastal, Estuarine

Assistance Type: Discretionary Grant

Agency: U.S. Department of Commerce, National Oceanic & Atmospheric Administration

Purpose: To solicit grant proposals from eligible Great Lakes States for coastal and estuarine land conservation (land acquisition) projects under the CELCP. This conservation program provides matching funds to state and local governments to purchase threatened coastal and estuarine lands, or to obtain conservation easements. To be considered, the land must be important ecologically or possess other coastal conservation values such as historic features, scenic views, or recreational opportunities.

Award Ceiling: \$1,500,000

Authorization: Authority for the CELCP is 16 U.S.C. § 1456-1 (Section 307A of the CZMA, formerly authorized under 16 U.S.C. § 1456d).

Website: <http://coast.noaa.gov/czm/landconservation/applying/>

Contact Information: Elaine Vaudreuil, CELCP Program Manager, Elaine.Vaudreuil@noaa.gov, (240) 533-0821 or Elizabeth Mountz, Elizabeth.Mountz@noaa.gov, (240) 533-0819

98. Coastal Program - Great Lakes Restoration Initiative

Keywords: Environment, Coast, Great Lakes, Habitat, National Resources

Assistance Type: Discretionary, Cooperative Agreement

Agency: U.S. Department of the Interior, U.S. Fish & Wildlife Service

Purpose: The Coastal Program is a voluntary, incentive-based program that provides technical and financial assistance to coastal communities and landowners to restore and protect fish and wildlife habitat on public and private lands. The Coastal Program is not a convention grants program, in that it does not solicit projects through a request for proposals. Instead, project work plans are developed strategically, in coordination with partners, and with substantial involvement from Service field staff. Projects must advance the mission, promote biological diversity, and be based upon sound scientific biological principles.

Award Ceiling: \$200,000

Authorization: Clean Water Act; and FY2010, 11, 12 & 13 Appropriations Legislation

Website: <https://www.grants.gov/web/grants/view-opportunity.html?oppId=298721>

Contact Information: Christie Deloria, christie_deloria@fws.gov, (906) 226-1240

99. Coastal Science, Engineering & Education for Sustainability (SEES)

Keywords: Environment, Coast, Conservation

Assistance Type: Discretionary Grant

Agency: U.S. National Science Foundation

Purpose: To inform societal decisions about the uses of coastal systems, including for economic, aesthetic, recreational, research, and conservation purposes.

Award Ceiling: N/A

Authorization: N/A

Website: https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504816

Contact Information: Larry H. Weber, lweber@nsf.gov, (703) 292-8580

100. Critical Resilient Interdependent Infrastructure Systems and Processes (CRISP 2.0)

Keywords: Resilience, Infrastructure

Assistance Type: N/A

Agency: U.S. National Science Foundation

Purpose: To (1) foster an interdisciplinary research community of engineers and social, behavioral, and economic scientists who work synergistically together for innovation in the design and management of infrastructures as processes and services; (2) transform relevant fields by re-thinking Interdependent Critical Infrastructures as processes and services that may have complementary and/or substitutional roles with each other; (3) create innovations in Interdependent Critical Infrastructure that contribute directly and positively to people's quality of life, spur economic growth, and respond to both internal perturbations and external shocks, regardless of whether they are natural, technological or human-induced.

Award Ceiling: N/A

Authorization: N/A

Website: https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505277

Contact Information: Contact information listed on the website above.

101. Decision Frameworks for Multi-Hazard Resilient & Sustainable Buildings (RSB)

Keywords: Resilience, Buildings

Assistance Type: Grant (No Match)

Agency: U.S. National Science Foundation

Purpose: To advance knowledge for new concepts for multi-hazard resilient and sustainable soil-foundation-structural-envelope building systems using decision frameworks for selection among alternative building system designs.

Award Ceiling: N/A

Authorization: N/A

Website: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=6192&org=NSF

Contact Information: Joy M. Pauschke, jpauschk@nsf.gov, (703) 292-7024

102. Energy for Sustainability

Keywords: Energy, Transportation, Resilience

Assistance Type: Discretionary Grant

Agency: U.S. National Science Foundation

Purpose: To support fundamental engineering research that will enable innovative processes for the sustainable production of electricity and fuels, and for energy storage. Processes for sustainable energy production must be environmentally benign, reduce greenhouse gas production, and utilize renewable resources. Research projects that stress molecular level understanding of phenomena that directly impacts key barriers to improved system level performance (e.g., energy efficiency, product yield, process intensification) are encouraged. Proposed research should be inspired by the need for economic and impactful conversion processes. All proposals should include in the project description, how the proposed work, if successful, will improve process realization and economic feasibility and compare the proposed work against current state-of-the-art. Highly integrated multidisciplinary projects are encouraged.

Award Ceiling: N/A

Authorization: N/A

Website: https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505339

Contact Information: Carole Read, cread@nsf.gov, (703) 292-2418

103. Engineering for Natural Hazards (ENH)

Keywords: Infrastructure, Resilience, Natural Hazards

Assistance Type: Discretionary Grant

Agency: U.S. National Science Foundation

Purpose: To prevent natural hazards from becoming disasters, and to broaden consideration of natural hazards independently to the consideration of the multi-hazard environment within which the constructed civil infrastructure exists. Natural hazards considered by the ENH program include earthquakes, windstorms (such as tornadoes and hurricanes), tsunamis, storm surge, and landslides. The constructed civil infrastructure supported by the ENH program includes building systems, such as the soil-foundation-structure-envelope-nonstructural system, as well as the façade and roofing, and other structures, geostructures, and underground facilities, such as tunnels.

Award Ceiling: N/A

Authorization: N/A

Website: https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505177

Contact Information: Joy M. Pauschke, jpauschk@nsf.gov, (703) 292-7024; Richard J. Fragaszy, rfragasz@nsf.gov, (703) 292-7011

104. Environmental Sustainability

Keywords: Environment, Resilience

Assistance Type: Discretionary Grant

Agency: U.S. National Science Foundation

Purpose: To promote sustainable engineered systems that support human well-being and that are also compatible with sustaining natural (environmental) systems.

Award Ceiling: N/A

Authorization: N/A

Website: https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505338

Contact Information: Bruce Hamilton, bhamilto@nsf.gov, (703) 292-7066

105. Fire Prevention & Safety Grant Program (FP&S)

Keywords: Resilience, Fire Prevention, Safety, Firefighters

Assistance Type: Grant, Cost-Match

Agency: U.S. Department of Homeland Security, Federal Emergency Management Agency

Purpose: To enhance the safety of the public and firefighters from fire and related hazards. The primary or overarching goal is to reduce injury and prevent death among high-risk populations.

Award Ceiling: \$1,500,000

Authorization: Section 33 of the Federal Fire Prevention and Control Act of 1974, Pub. L. No. 93-498, as amended (15 USC § 2229)

Website: <https://www.fema.gov/welcome-assistance-firefighters-grant-program>

Contact Information: FP&S Help Desk, firegrants@fema.gov, (866) 274-0960

106. Geotechnical Engineering & Materials (GEM)

Keywords: Resilience, Research

Assistance Type: Discretionary Grant

Agency: U.S. National Science Foundation

Purpose: This program supports fundamental research in soil and rock mechanics and dynamics in support of physical civil infrastructure systems. Also supported is research on improvement of the engineering properties of geologic materials for infrastructure use by mechanical, biological, thermal, chemical, and electrical processes. The program supports the traditional areas of foundation engineering, earth structures, underground construction, tunneling, geoenvironmental engineering, and site characterization, as well as the emerging area of bio-geo engineering, for civil engineering applications, with emphasis on sustainable geosystems. Research related to the geotechnical engineering aspects of geothermal energy and geothermal heat pump systems is also supported. The GEM program encourages knowledge dissemination and technology transfer activities that can lead to broader societal benefit and implementation for provision of physical civil infrastructure. The program also encourages research that explores and builds upon advanced computing techniques and tools to enable major advances in Geotechnical Engineering. The program supports relevant research topics that address the emerging areas of geotechnical engineering and the Grand Challenges to “restore and improve urban infrastructure” and “provide access to clean water”.

Award Ceiling: N/A

Authorization: N/A

Website: https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505409

Contact Information: Richard J. Fragasz, rfragasz@nsf.gov, (703) 292-7011

107. Marine & Hydrokinetic Systems Performance Advancement II

Keywords: Energy, Maritime

Assistance Type: Cooperative Agreements, Cost Share requirements

Agency: U.S. Department of Energy

Purpose: To spur innovation of next generation waterpower component technologies, designed for manufacturability and built specifically for marine and hydrokinetic systems. The projects address technical challenges in three areas: advanced controls, crosscutting power take-off—which converts mechanical motion into electrical power—and innovative structures. Advancements in marine and hydrokinetic technologies will help these devices effectively and sustainably harness increased amounts of renewable energy from marine environments.

Award Ceiling: N/A

Authorization: N/A

Website: <https://www.energy.gov/eere/water/foa-marine-and-hydrokinetic-systems-performance-advancement-ii-spa-ii-component-metric>

Contact Information: U.S. DOE, [Office of Energy Efficiency and Renewable Energy](#)

108. National Priorities: Life Cycle Costs of Water Infrastructure Alternatives

Keywords: Environment, Infrastructure, Water

Assistance Type: Grant, Cost-Match

Agency: U.S. Environmental Protection Agency

Purpose: To propose research focused on developing tools and models that compare the life-cycle costs of green, grey, and hybrid forms of storm water infrastructure.

Award Ceiling: \$1,950,000. Each applicant must contribute a minimum of 25 percent match that may include in-kind contributions.

Authorization: Consolidated and Further Continuing Appropriations Act, 2015, P.L. 113-325 and the Clean Water Act, Section 104, 33 U.S.C. 1254.

Website: https://cfpub.epa.gov/ncer_abstracts/index.cfm/fuseaction/display.rfatext/rfa_id/596

Contact Information: Pasky Pascual, pascual.pasky@epa.gov, (703) 347-8056

109. Natural Hazards Engineering Research Infrastructure (NHERI)

Keywords: Resilience, Natural Hazards, Infrastructure

Assistance Type: Discretionary Grant

Agency: U.S. National Science Foundation

Purpose: To provide the natural hazards engineering community with access to research infrastructure (earthquake and wind engineering experimental facilities, cyberinfrastructure, computational modeling and simulation tools, and research data), coupled with education and community outreach activities. NHERI will enable research and educational advances that can contribute knowledge and innovation for the nation's Universities and Colleges - Universities and two- and four-year colleges (including community colleges) accredited in, and having a campus located in, the US acting on behalf of their faculty members. Such organizations also are referred to as academic institutions.

Award Ceiling: N/A

Authorization: N/A

Website: https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503259

Contact Information: Joy M. Pauschke, jpauschk@nsf.gov, (703) 292-7024; Richard J. Fragaszy, rfragasz@nsf.gov, (703) 292-7011

110. Next-Generation Marine Energy Systems

Keywords: Energy, Maritime

Assistance Type: Grant

Agency: U.S. Department of Energy

Purpose: To support the design and operation of innovative marine and hydrokinetic systems through survivability and reliability-related improvements. As part of its marine and hydrokinetic technology research and development efforts, DOE is working to harness the largely untapped renewable energy in waves, tidal, ocean, and river currents that could provide clean, affordable energy to homes and businesses across the country's coastal regions. The improvements supported by this funding will help these devices last longer, cost less to maintain and capture even more sustainable energy from the enormous potential of the nation's oceans and rivers.

Award Ceiling: N/A

Authorization: N/A

Website: <https://www.energy.gov/eere/articles/energy-department-awards-105-million-next-generation-marine-energy-systems>

Contact Information: U.S. DOE, [Office of Energy Efficiency and Renewable Energy](#)

111. Off-Hours Freight Delivery

Keywords: Transportation, Infrastructure, Freight Planning

Assistance Type: Cooperative Agreement

Agency: U.S. Department of Transportation, Federal Highway Administration

Purpose: To explore the efficacy of implementing off-hours goods movement and delivery programs in small to medium size urban areas with emerging or growing congestion problems. Working with the EPA, the pilot shall look at how truck deliveries made outside of peak and rush hours - when there is less traffic on the highways - can save time and money for freight carriers, improve air quality, and create more sustainable and livable cities. This project should address off-hours goods movement and delivery programs and should capitalize on the existing experience available in Europe.

Award Ceiling: \$150,000

Authorization: Section 5101(a)(1) of (SAFETEA-LU) (P. L.109-59)

Website: <https://www.grants.gov/web/grants/view-opportunity.html?oppId=255174>

Contact Information: Brandon Lorthridge; Brandon.Lorthridge@dot.gov, (202) 366-5507

112. Prediction of and Resilience against Extreme Events (PREEVENTS)

Keywords: Resilience, Hazards, Extreme Events

Assistance Type: Discretionary Grant

Agency: U.S. National Science Foundation

Purpose: PREEVENTS is focused on natural hazards and extreme events, and not on technological or deliberately human-caused hazards. The PREEVENTS portfolio will include the potential for disciplinary and multidisciplinary research at all scales, particularly aimed at areas ripe for significant near- or medium-term advances. PREEVENTS is designed as a logical successor to Hazards SEES and is one element of the NSF-wide Risk and Resilience activity, which has the overarching goal of improving predictability and risk assessment, and increasing resilience, to reduce the impact of extreme events on our life, society, and economy.

Award Ceiling: Solicitation does not specify a cap, but the total anticipated funding is \$18-25 million, and the estimated number of awards (15-20) provide approximate guidance.

Authorization: N/A

Website: https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504804

Contact Information: Contact information listed on the website above.

113. Projects of National & Regional Significance (General Fund)

Keywords: Transportation, Freight, Roads, Rail, Ports

Assistance Type: Increased Federal Share

Agency: U.S. Department of Transportation, Federal Highway Administration

Purpose: To quantitatively improve the throughput or provide long term congestion relief for passenger or freight movement for a part of the transportation network and clearly connect this improvement to sustainable economic productivity for the nation or the region in which it is located.

Award Ceiling: N/A

Authorization: MAP-21, 2012

Website: https://ops.fhwa.dot.gov/Freight/infrastructure/nat_reg_sig/index.htm

Contact Information: Tamiko Burnell, Tamiko.Burnell@dot.gov, (202) 366-1200

114. Securing the Cities Program Archives from DHS

Keywords: Security, Training

Assistance Type: Discretionary Grant

Agency: U.S. Department of Homeland Security, Domestic Nuclear Detection Office

Purpose: To reduce the risk of a successful deployment of a radiological/nuclear (R/N) terrorist weapon against a major U.S. metropolitan area by establishing sustainable capability within Global Nuclear Detection Architecture (GNDA) partner agencies to detect, analyze, and report nuclear and other radioactive materials out of regulatory control within their jurisdictions. Capability in this sense is defined as trained and equipped personnel, proficient in the use of R/N detection equipment and guided by detection and response protocol.

Award Ceiling: N/A

Authorization: Further Continuing and Security Assistance Appropriates Act, 2017; Title IV – Research and Development, Training, and Services; Domestic Nuclear Detection Office.

Website: <https://www.dhs.gov/news/2015/09/14/dhs-announces-expansion-securing-cities-program>

Contact Information: Janet Bailey, janet.bailey@hq.dhs.gov, (202) 447-0362; Christopher Magrino, christopher.magrino@hq.dhs.gov, (202) 254-7443

115. Structural and Architectural Engineering and Materials (SAEM)

Keywords: Infrastructure, Environment, Resilience, Research

Assistance Type: Discretionary Grant

Agency: U.S. National Science Foundation

Purpose: The goal of this program is to enable sustainable buildings and other structures that can be continuously occupied and/or operated during the structure's useful life. The SAEM program supports fundamental research for advancing knowledge and innovation in structural and architectural engineering and materials that promotes a holistic approach to analysis and design, construction, operation, maintenance, retrofit, and repair of structures.

Award Ceiling: N/A

Authorization: N/A

Website: https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13358

Contact Information: Yick G. Hsuan, yhsuan@nsf.gov, (703) 292-2241

Appendices

APPENDIX A: Glossary of Terms

Applicant: Any user registered with an applicant account type. See also [Individual Applicant](#) and [Organization Applicant](#).

Application Package: A group of specific forms and documents for a specific funding opportunity which are used to apply for a grant. The Application Package is the full, downloaded PDF, which includes all the forms and attachments required to submit the application.

Application Package Template: One or more forms and documents which can be reused for multiple opportunity-specific application packages.

Authorized Organization Representative (AOR): A member of an organization who is approved by the EBiz POC to submit grant applications in [Grants.gov](#) on behalf of the organization. Only an AOR has the authority to sign and submit grant applications.

Award: Financial assistance that provides support or stimulation to accomplish a public purpose. Awards include grants and other agreements in the form of money or property in lieu of money, by the Federal government to an eligible recipient. The term does not include technical assistance, which provides services instead of money; other assistance in the form of loans, loan guarantees, interest subsidies, or insurance; direct payments of any kind to individuals; and contracts which are required to be entered into and administered under Federal procurement laws and regulations.

Budget: The financial plan for the project or program that the Federal awarding agency or pass-through entity approves during the Federal award process or in subsequent amendments to the Federal award. It may include the Federal and non-federal share or only the Federal share, as determined by the Federal awarding agency or pass-through entity.

Catalog of Federal Domestic Assistance (CFDA) number: The number assigned to a Federal program in the CFDA.

CFDA program title: The title of the program under which the Federal award was funded in the CFDA.

Close Date: The deadline designated by the grant-making agency designated for submission of a particular grant application. See also [Grace Period](#).

Closeout: The process by which the Federal awarding agency or pass-through entity determines that all applicable administrative actions and all required work of the Federal award have been completed and takes actions as described in [§200.344](#) Closeout of the Office of Management & Budget (OMB) Uniform Grants Guidance.

Continuation Grant: An extension or renewal of existing program funding for one or more additional budget period(s) that would otherwise expire. Continuation grants are typically available to existing recipients of discretionary, multi-year projects; however, new applicants may be considered. Receipt of a continuation grant is usually based on availability of funds, project performance, and compliance with progress and financial reporting requirements. Applications for continuation may compete with other continuation requests submitted to the awarding agency.

Cooperative Agreement: A legal instrument of financial assistance between a federal awarding agency or pass-through entity and a non-federal entity that, consistent with [31 U.S.C. 6302–6305](#):

- Is used to enter a relationship the principal purpose of which is to transfer anything of value from the Federal awarding agency or pass-through entity to the non-federal entity to carry out a public purpose authorized by a law of the United States (see [31 U.S.C. 6101\(3\)](#)); and not to acquire property or services for the Federal government or pass-through entity's direct benefit or use.
- Is distinguished from a grant in that it provides for substantial involvement between the Federal awarding agency or pass-through entity and the non-federal entity in carrying out the activity contemplated by the Federal award.
- The term does not include: (1) A cooperative research and development agreement as defined in [15 U.S.C. 3710a](#); or (2) An agreement that provides only: (i) Direct United States Government cash assistance to an individual; (ii) A subsidy; (iii) A loan; (iv) A loan guarantee; or (v) Insurance.

Cost Sharing or Matching: The portion of project costs not paid by Federal funds (unless otherwise authorized by Federal statute). See also [§200.306](#) Cost sharing or matching of the OMB Uniform Grant Guidance.

Data Universal Numbering System (DUNS) Number: The nine-digit number established and assigned by Dun and Bradstreet, Inc. (D&B) to uniquely identify entities. A non-federal entity is required to have a DUNS number to apply for, receive, and report on a federal award. A DUNS number may be obtained from D&B by telephone (currently 866–705–5711) or the Internet (currently at <https://www.dnb.com/duns/get-a-duns.html>).

Date of Completion: The date on which all work under an award is completed or the date on the award document, or any supplement or amendment thereto, on which awarding agency sponsorship ends.

Discretionary Grant: A grant (or cooperative agreement) for which the Federal awarding agency generally may select the recipient from among all eligible recipients, may decide to make or not make an award based on the programmatic, technical, or scientific content of an application, and can decide the amount of funding to be awarded.

E-Business Point of Contact Information (EBiz POC): A user registered as an organization applicant who is responsible for the administration and management of grant activities for their organization. The EBiz POC is likely to be an organization's chief financial officer or authorizing official. The EBiz POC authorizes representatives of their organization. There can only be one EBiz POC per DUNS Number.

Federal Agency: Federal agency means an “agency” as defined at [5 U.S.C. 551\(1\)](#) and further clarified by [5 U.S.C. 552\(f\)](#).

Federal Award: Federal award has two definitions, which depends on the context of its use. Paragraphs (a) and (b) explain the context and define the term appropriately.

- a) The Federal financial assistance that a non-federal entity receives directly from a federal awarding agency or indirectly from a pass-through entity, as described in [§200.101](#) Applicability of the OMB Uniform Grant Guidance; or (2) The cost-reimbursement contract under the Federal Acquisition Regulations that a non-federal entity receives directly from a Federal awarding agency or indirectly from a pass-through entity, as described in [§200.101](#) Applicability of the OMB Uniform Grant Guidance.

- b) The instrument setting forth the terms and conditions. The instrument is the grant agreement, cooperative agreement, or other agreement for assistance covered in [§200.1](#) Federal financial assistance of the OMB Uniform Grant Guidance, or the cost-reimbursement contract awarded under the Federal Acquisition Regulations. (c) Federal award does not include other contracts that a federal agency uses to buy goods or services from a contractor or a contract to operate Federal government owned, contractor operated (GOCO) facilities. (d) See also definitions of [Federal financial assistance](#), [grant agreement](#), and [cooperative agreement](#).

Federal Award Date: The date when the Federal award is signed by the authorized official of the Federal awarding agency.

Federal Awarding Agency: The Federal agency that provides a federal award directly to a non-federal entity. Alternative term: Grant-Making Agency.

Federal Financial Assistance: For grants and cooperative agreements, Federal financial assistance means assistance that non-federal entities receive or administer in the form of:

- Grants
- Cooperative agreements
- Non-cash contributions or donations of property (including donated surplus property)
- Direct appropriations
- Food commodities
- Other financial assistance

Federal financial assistance also includes assistance that non-federal entities receive or administer in the form of:

- Loan
- Loan Guarantees
- Interest subsidies
- Insurance

Federal financial assistance does not include amounts received as reimbursement for services rendered to individuals as described in [§200.502\(h\) and \(i\)](#).

Federal Program:

- a) All Federal awards which are assigned a single number in the CFDA.
- b) When no CFDA number is assigned, all Federal awards to non-federal entities from the same agency made for the same purpose should be combined and considered one program.
- c) Notwithstanding paragraphs (a) and (b) of this definition, a cluster of programs. The types of clusters of programs are research and development (R&D) Student financial aid (SFA).

Federal Share: The portion of the total project costs that are paid by Federal funds.

Formula Grant: Allocations of Federal funding to states, territories, or local units of government determined by distribution formulas in the authorizing legislation and regulations. To receive a formula grant, the entity must meet all the eligibility criteria for the program, which are pre-determined and not open to discretionary funding decisions.

Formula grants typically fund activities of a continuing nature and may not be confined to a specific project. Common elements in formula grants include population, proportion of population below the poverty line, and other demographic information.

Funding Opportunity Announcement (FOA): A publicly available document by which a federal agency makes known its intentions to award discretionary grants or cooperative agreements, usually because of competition for funds. Funding opportunity announcements may be known as program announcements, notices of funding availability, solicitations, or other names depending on the agency and type of program. Funding opportunity announcements can be found at [Grants.gov](https://www.grants.gov) in the Search Grants tab and on the funding agency's or program's website.

Funding Opportunity Number (FON): The number that a federal agency assigns to its grant announcement.

Funding Period: The period of time when Federal funding is available for obligation by the recipient.

Grace Period: A grace period may be created at the grant-making agency's discretion to extend the application submission period. This period reflects the number of days after the closing date that [Grants.gov](https://www.grants.gov) will continue to accept applications for a grant opportunity, for example, an agency might include a grace period to accept revised applications. It also represents the day (Closing Date + Grace Period) that applicants will no longer be able to download the application package. This value is entered by an agency when creating a grant opportunity and is not visible to grant applicants.

Grant Agreement: A legal instrument of financial assistance between a federal awarding agency or pass-through entity and a non-federal entity that, consistent with [31 U.S.C. 6302](https://www.uscourts.gov/uscourt/law/31-usc-6302) and [31 U.S.C. 6304](https://www.uscourts.gov/uscourt/law/31-usc-6304):

- a) Is used to enter a relationship the principal purpose of which is to transfer anything of value from the Federal awarding agency or pass-through entity to the non-federal entity to carry out a public purpose authorized by a law of the United States (see [31 U.S.C. 6101\(3\)](https://www.uscourts.gov/uscourt/law/31-usc-6101(3))); and not to acquire property or services for the Federal awarding agency or pass-through entity's direct benefit or use.
- b) Is distinguished from a cooperative agreement in that it does not provide for substantial involvement between the Federal awarding agency or pass-through entity and the non-federal entity in carrying out the activity contemplated by the Federal award.
- c) Does not include an agreement that provides only: (1) Direct United States Government cash assistance to an individual; (2) A subsidy; (3) A loan; (4) A loan guarantee; or (5) Insurance.

Grantor: A user registered on behalf of their federal grant-making agency to post funding opportunities or manage submissions to these funding opportunities.

Grants.gov Tracking Number: A number set used by [Grants.gov](https://www.grants.gov) which is used to identify each application it receives.

Indian Tribe (or federally recognized Indian tribe): Any Indian tribe, band, nation, or other organized group or community, including any Alaska Native village or regional or village corporation as defined in or established pursuant to the Alaska Native Claims Settlement Act ([43 U.S.C. Chapter 33](https://www.uscourts.gov/uscourt/law/43-usc-chapter-33)), which is recognized as eligible for the special programs and services provided by the United States to Indians because of their status as Indians ([25 U.S.C.](https://www.uscourts.gov/uscourt/law/25-usc)). See annually published [Indian Affairs Bureau](https://www.indianaffairs.gov/indian-affairs/bureau) list of [Indian Entities Recognized and Eligible to Receive Services](https://www.indianaffairs.gov/indian-affairs/bureau).

Individual Applicant: A registered applicant user who submits applications on their own behalf. Individuals sign the grant application and its associated certifications and assurances that are necessary to fulfill the requirements of the application process.

Local Government: Any unit of government within a state, including a: (a) County; (b) Borough; (c) Municipality; (d) City; (e) Town; (f) Township; (g) Parish; (h) Local public authority, including any public housing agency under the [United States Housing Act of 1937](#); (i) Special district; (j) School district; (k) Intrastate district; (l) Council of governments, whether or not incorporated as a nonprofit corporation under state law; and (m) Any other agency or instrumentality of a multi-, regional, or intra-state or local government.

Natural Resources: Land, fish, wildlife, biota, air, water, ground water, drinking water supplies, and other such resources belonging to, managed by, held in trust by, appertaining to, or otherwise controlled by the United States, any State or local government, any foreign government, any Indian tribe, or, if such resources are subject to a trust restriction on alienation, any member of an Indian tribe.

Non-federal Entities: A state, local government, Indian tribe, institution of higher education (IHE), or nonprofit organization that carries out a federal award as a recipient or subrecipient.

Opportunity Keywords: A field located on the Grant Opportunity Properties screen within [Grants.gov](#). The Opportunity Keywords field values include Discretionary, Mandatory, Earmark, and Continuation. The Opportunity Keywords field was added to the site to assist [Grants.gov](#) with aggregating opportunities and application packages for public and private displays on the site. For example, there are links which show grant opportunities and packages recently posted to the site. Those opportunities and packages with a Keywords type of Earmarked or Continuation will not show up on these public listings.

Organization Applicant: A registered grant applicant user who is working on or submitting applications on behalf of an organization, such as a state government, nonprofit organization, private business, or any other type of institution.

Pass-Through Entity: Pass-through entity means a non-federal entity that provides a subaward to a subrecipient to carry out part of a federal program.

Pass-Through Funding: Funds issued by a federal agency to a state agency or institution that are then transferred to other state agencies, units of local government, or other eligible groups per the award eligibility terms. The state agency or institution is referred to as the "prime recipient" of the pass-through funds. The secondary recipients are referred to as "subrecipients". The prime recipient issues the subawards as competitive or noncompetitive as dictated by the prime award terms and authorizing legislation.

Posted Date: The date the grant-making agency published the funding opportunity on [Grants.gov](#).

Profile: Applicant information stored in the [Grants.gov](#) system for the purpose of identifying a user.

Project Cost: Total allowable costs incurred under a federal award and all required cost sharing and voluntary committed cost sharing, including third-party contributions.

Project Period: The period established in the award document during which awarding agency sponsorship begins and ends.

Recipient: A non-federal entity that receives a federal award directly from a federal awarding agency to carry out an activity under a federal program. The term recipient does not include subrecipients. See also [§200.1](#) Non-Federal entity in the OMB Uniform Grants Guidance.

Subaward: An award provided by a pass-through entity to a subrecipient for the subrecipient to carry out part of a federal award received by the pass-through entity. It does not include payments to a contractor or payments to an individual that is a beneficiary of a federal program. A subaward may be provided through any form of legal agreement, including an agreement that the pass-through entity considers a contract.

System for Award Management (SAM): SAM validates applicant information and electronically shares the secure and encrypted data with the Federal agencies' finance offices to facilitate paperless payments through Electronic Funds Transfer (EFT). SAM stores your organizational information, allowing [Grants.gov](#) to verify your identity and to pre-fill organizational information on your grant applications.

APPENDIX B: Funding Programs by Alphabetical Order

Advanced Research Projects Agency-Energy (ARPA-E)	Program #48
Advanced Technology Solutions for Unconventional Oil and Gas Development	Program #95
Advanced Transportation and Congestion Management Technologies Deployment Program	Program #1
Biological Oceanography (BioOce)	Program #84
Building Pathways to Infrastructure Jobs H-1B Skills Training Grant	Program #32
Building Resilient Infrastructure and Communities (BRIC)	Program #2
Business Energy Investment Tax Credit (ITC)	Program #49
Capital Construction Fund (CCF) Program	Program #3
Chemical Oceanography	Program #85
Civil Infrastructure Systems (CIS)	Program #52
Clean Ports Program	Program #68
Clean Vessel Act (CVA) Grant	Program #69
Coastal & Estuarine Land Conservation Program (CELCP)	Program #97
Coastal Program	Program #70
Coastal Program – Great Lakes Restoration Initiative	Program #98
Coastal Resilience Grants Program	Program #53
Coastal Science, Engineering & Education for Sustainability (SEES)	Program #99
Congestion Mitigation & Air Quality Improvement (CMAQ) Program	Program #71
Consolidated Rail Infrastructure and Safety Improvements (CRISI) Grants	Program #62
Construction Reserve Fund (CRF)	Program #4
Continuing Authorities Program (CAP)	Program #54
Cooperative Endangered Species Conservation Fund / Section 6 Grants (CESCF)	Program #72
Corps Water Infrastructure Financing Program (CWIFP)	Program #5
Critical Resilient Interdependent Infrastructure Systems and Processes (CRISP 2.0)	Program #100
Critical Sector Job Quality Grants	Program #33
Cyber-Physical Systems (CPS)	Program #86
Decision Frameworks for Multi-Hazard Resilient & Sustainable Building (RSB)	Program #101
Department of Energy Unsolicited Proposal Office	Program #50
Diesel Emissions Reduction Act (DERA) Funding Assistance Program	Program #73
Diesel Emissions Reduction Act (DERA) Tribal and Insular Area Grants	Program #74
Disaster Loan Assistance	Program #55
Economic Development Assistance Programs	Program #34
Electric or Low-Emitting Ferry Pilot Program	Program #6
Emergency Relief Program	Program #56
Endangered Species Conservation - Recovery Implementation Funds	Program #75
Energy for Sustainability	Program #102
Engineering for Natural Hazards (ENH)	Program #103
Environmental Sustainability	Program #104
ERDC Broad Agency Announcement (BAA)	Program #87
Farm Storage Facility Loan Program	Program #7
Federal Ship Financing Program (Title XI)	Program #8
Ferry Boat Program (FBP)	Program #9
Ferry Service for Rural Communities Program	Program #10
Fire Prevention & Safety Grant Program	Program #105
Flood Mitigation Assistance (FMA) Grant Program	Program #57
General Small Business Loans (7A)	Program #35
Geotechnical Engineering & Materials (GEM)	Program #106
Grant Anticipation Revenue Vehicles (GARVEEs)	Program #11

Hazard Mitigation Grant Program (HMGP)	Program #58
Hazardous Materials Instructor Training Grant (HMIT)	Program #36
Homeland Security Grant Program (HSGP)	Program #63
Humans, Disasters, and the Built Environment (HDBE)	Program #59
Infrastructure for Rebuilding America (INFRA) Grants	Program #12
Integrated Ocean Observing System (IOOS) Ocean Technology Transition (OTT) Project	Program #88
Local Development Districts (LDD) Capacity Building Program	Program #37
Local Development Districts Community Support Pilot Program	Program #38
Marine & Hydrokinetic Systems Performance Advancement II	Program #107
Marine Debris Removal Grant	Program #76
Marine Highway Program	Program #13
Marine Mammal Commission Research Program	Program #89
Maritime Environmental and Technical Assistance (META) Program	Program #77
Maritime Heritage Grants	Program #78
Metropolitan Planning Program (MPP)	Program #14
National Coastal Wetlands Conservation Grant Program	Program #79
National Highway Performance Program	Program #15
National Infrastructure Project Assistance or “Megaprojects”	Program #16
National Priorities: Life Cycle Costs of Water Infrastructure Alternatives	Program #108
Natural Hazards Engineering Research Infrastructure (NHERI)	Program #109
Next-Generation Marine Energy Systems	Program #110
NOAA Broad Agency Announcement (BAA)	Program #90
NOAA Physical Oceanographic Real Time System (PORTS)	Program #64
Ocean Drilling Program (ODP)	Program #91
Ocean Freight Reimbursement (OFR) Program	Program #39
Ocean Technology & Interdisciplinary Coordination (OTIC) Program	Program #92
Oceanographic Facilities & Equipment Support	Program #93
Off-Hours Freight Delivery	Program #111
Operations Engineering (OE) Program	Program #94
Passenger Ferry Grant Program	Program #17
Physical Oceanography	Program #95
Planning and Local Technical Assistance Program	Program #40
Pollution Prevention (P2) Grant Programs	Program #80
Port Infrastructure Development Program (PIDP)	Program #18
Port Security Grant Program (PSGP)	Program #65
Prediction of and Resilience against Extreme Events (PREEVENTS)	Program #112
Pre-Disaster Mitigation Grant Program	Program #60
Private Activity Bonds (PABs)	Program #19
Projects of National & Regional Significance (General Fund)	Program #113
Railroad Rehabilitation & Improvement Financing (RRIF)	Program #20
Rebuilding American Infrastructure with Sustainability and Equity (RAISE)	Program #21
Reconnecting Communities and Neighborhoods (RCN) Grant Program	Program #22
Renewable Electricity Production Tax Credit (PTC)	Program #51
SBA 504 Loan Program	Program #23
Section 129 Loans	Program #24
Secure and Trustworthy Cyberspace (SaTC)	Program #66
Securing the Cities Program Archives from DHS	Program #114
Small Shipyard Grants Program	Program #25
Source Reduction Assistance Grant Program (SRA)	Program #81
State Infrastructure Banks (SIBs)	Program #26
States’ Economic Development Assistance Program (SEDAP)	Program #41

<u>Strengthening Mobility and Revolutionizing Transportation (SMART) Grant</u>	Program #42
<u>Structural and Architectural Engineering and Materials (SAEM)</u>	Program #115
<u>Supplemental Public Sector Training (SPST) Grant</u>	Program #43
<u>Surface Transportation Block Grant Program</u>	Program #27
<u>Targeted Airshed Grant Program</u>	Program #82
<u>Transit Security Grant Program (TSGP)</u>	Program #67
<u>Transportation Alternatives Set-Aside</u>	Program #28
<u>Transportation Infrastructure Finance & Innovation Act (TIFIA)</u>	Program #29
<u>University Transportation Center (UTC) Program</u>	Program #44
<u>USACE Flood Risk Management Services (FRMS)</u>	Program #61
<u>USACE Planning Assistance to States</u>	Program #30
<u>Water Infrastructure Finance and Innovation Act (WIFIA)</u>	Program #31
<u>Wetland Program Development Grants (WPDGs)</u>	Program #83
<u>Women in Apprenticeship and Nontraditional Occupations (WANTO)</u>	Program #45
<u>Workforce Innovation and Opportunity Act (WIOA) Programs</u>	Program #46
<u>Workforce Opportunities for Rural Communities (WORC)</u>	Program #47

APPENDIX C: Funding Programs by Agency

Agriculture (U.S. Department of)

- [Farm Storage Facility Loan Program](#)

Commerce (U.S. Department of)

- [Capital Construction Fund \(CCF\) Program](#)
- [Coastal & Estuarine Land Conservation Program \(CELCP\)](#)
- [Coastal Resilience Grants Program](#)
- [Economic Development Assistance Programs](#)
- [Integrated Ocean Observing System \(IOOS\) Ocean Technology Transition \(OTT\) Project](#)
- [Marine Debris Removal Grant](#)
- [NOAA Broad Agency Announcement \(BAA\)](#)
- [NOAA Physical Oceanographic Real Time System \(PORTS\)](#)
- [Planning Program & Local Technical Assistance Program](#)

Defense (U.S. Department of)

- [Continuing Authorities Program \(CAP\)](#)
- [Corps Water Infrastructure Financing Program \(CWIFP\)](#)
- [ERDC Broad Agency Announcement \(BAA\)](#)
- [USACE Flood Risk Management Services \(FRMS\)](#)
- [USACE Planning Assistance to States](#)

Delta Regional Authority

- [Local Development Districts Community Support Pilot Program](#)
- [States' Economic Development Assistance Program \(SEDAP\)](#)

Energy (U.S. Department of)

- [Advanced Research Projects Agency-Energy \(ARPA-E\)](#)
- [Advanced Technology Solutions for Unconventional Oil and Gas Development](#)
- [Business Energy Investment Tax Credit \(ITC\)](#)
- [Department of Energy Unsolicited Proposal Office](#)
- [Marine & Hydrokinetic Systems Performance Advancement II](#)
- [Next-Generation Marine Energy Systems](#)
- [Renewable Electricity Production Tax Credit \(PTC\)](#)

Environmental Protection Agency

- [Clean Ports Program](#)
- [Diesel Emissions Reduction Act \(DERA\) Funding Assistance Program](#)
- [Diesel Emissions Reduction Act \(DERA\) Tribal and Insular Area Grants](#)
- [National Priorities: Life Cycle Costs of Water Infrastructure Alternatives](#)
- [Pollution Prevention \(P2\) Grant Programs](#)
- [Source Reduction Assistance Grant Program \(SRA\)](#)
- [Targeted Airshed Grant Program](#)
- [Water Infrastructure Finance and Innovation Act \(WIFIA\)](#)
- [Wetland Program Development Grants \(WPDGs\)](#)

Homeland Security (U.S. Department of)

- [Building Resilient Infrastructure and Communities \(BRIC\)](#)
- [Fire Prevention & Safety Grant Program](#)
- [Flood Mitigation Assistance \(FMA\) Grant Program](#)
- [Hazard Mitigation Grant Program \(HMGP\)](#)
- [Homeland Security Grant Program \(HSGP\)](#)
- [Port Security Grant Program \(PSGP\)](#)
- [Pre-Disaster Mitigation \(PDM\) Grant Program](#)
- [Securing the Cities Program Archives from DHS](#)
- [Transit Security Grant Program \(TSGP\)](#)

Interior (U.S. Department of)

- [Clean Vessel Act \(CVA\) Grant](#)
- [Coastal Program](#)
- [Coastal Program – Great Lakes Restoration Initiative](#)
- [Cooperative Endangered Species Conservation Fund / Section 6 Grants \(CESCF\)](#)
- [Endangered Species Conservation - Recovery Implementation Funds](#)
- [Maritime Heritage Grants](#)
- [National Coastal Wetlands Conservation Grant Program](#)

Internal Revenue Service

- [Business Energy Investment Tax Credit \(ITC\)](#)
- [Renewable Electricity Production Tax Credit \(PTC\)](#)

Labor (U.S. Department of)

- [Building Pathways to Infrastructure Jobs H-1B Skills Training Grant](#)
- [Critical Sector Job Quality Grants](#)
- [Women in Apprenticeship and Nontraditional Occupations \(WANTO\)](#)
- [Workforce Innovation and Opportunity Act \(WIOA\) Programs](#)
- [Workforce Opportunities for Rural Communities \(WORC\)](#)

Marine Mammal Commission

- [Marine Mammal Commission Research Program](#)

National Science Foundation

- [Biological Oceanography \(BioOce\)](#)
- [Chemical Oceanography](#)
- [Civil Infrastructure Systems \(CIS\)](#)
- [Coastal Science, Engineering & Education for Sustainability \(SEES\)](#)
- [Critical Resilient Interdependent Infrastructure Systems and Processes \(CRISP 2.0\)](#)
- [Cyber-Physical Systems \(CPS\)](#)
- [Decision Frameworks for Multi-Hazard Resilient & Sustainable Buildings \(RSB\)](#)
- [Energy for Sustainability](#)
- [Engineering for Natural Hazards \(ENH\)](#)
- [Environmental Sustainability](#)
- [Geotechnical Engineering & Materials \(GEM\)](#)
- [Humans, Disasters, and the Built Environment \(HDBE\)](#)
- [Natural Hazards Engineering Research Infrastructure \(NHERI\)](#)

- [Ocean Drilling Program \(ODP\)](#)
- [Ocean Technology & Interdisciplinary Coordination \(OTIC\) Program](#)
- [Oceanographic Facilities & Equipment Support](#)
- [Operations Engineering \(OE\) Program](#)
- [Physical Oceanography](#)
- [Prediction of and Resilience against Extreme Events \(PREEVENTS\)](#)
- [Secure and Trustworthy Cyberspace \(SaTC\)](#)
- [Structural and Architectural Engineering and Materials \(SAEM\)](#)

Small Business Administration

- [Disaster Loan Assistance](#)
- [General Small Business Loans \(7A\)](#)
- [SBA 504 Loan Program](#)

Southeast Crescent Regional Commission (SCRC)

- [Local Development Districts \(LDD\) Capacity Building Program](#)

Transportation (U.S. Department of)

- [Advanced Transportation & Congestion Management Technologies Deployment Program](#)
- [Capital Construction Fund Program](#)
- [Congestion Mitigation & Air Quality Improvement \(CMAQ\) Program](#)
- [Consolidated Rail Infrastructure and Safety Improvements \(CRISI\) Grants](#)
- [Construction Reserve Fund \(CRF\)](#)
- [Electric or Low-Emitting Ferry Pilot Program](#)
- [Emergency Relief Program](#)
- [Federal Ship Financing Program \(Title XI\)](#)
- [Ferry Boat Program \(FBP\)](#)
- [Ferry Service for Rural Communities Program](#)
- [Grant Anticipation Revenue Vehicles \(GARVEEs\)](#)
- [Hazardous Materials Instructor Training Grants \(HMIT\)](#)
- [Infrastructure for Rebuilding America \(INFRA\) Grants](#)
- [Marine Highway Program](#)
- [Maritime Environmental and Technical Assistance \(META\) Program](#)
- [Metropolitan Planning Program \(MPP\)](#)
- [National Highway Performance Program](#)
- [National Infrastructure Project Assistance or “Megaprojects”](#)
- [Off-Hours Freight Delivery](#)
- [Passenger Ferry Grant Program](#)
- [Port Infrastructure Development Program \(PDIP\)](#)
- [Private Activity Bonds \(PABs\)](#)
- [Projects of National & Regional Significance \(General Fund\)](#)
- [Railroad Rehabilitation & Improvement Financing \(RRIF\)](#)
- [Rebuilding American Infrastructure with Sustainability and Equity \(RAISE\)](#)
- [Reconnecting Communities and Neighborhoods \(RCN\) Grant Program](#)
- [Section 129 Loans](#)
- [Small Shipyard Grant Program](#)
- [State Infrastructure Banks \(SIBs\)](#)
- [Strengthening Mobility and Revolutionizing Transportation \(SMART\) Grants](#)

- [Supplemental Public Sector Training \(SPST\) Grant](#)
- [Surface Transportation Block Grant Program](#)
- [Transportation Alternatives Set-Aside](#)
- [Transportation Infrastructure Finance & Innovation Act \(TIFIA\)](#)
- [University Transportation Center \(UTC\) Program 2022-2026 Grants](#)

U.S. Agency for International Development

- [Ocean Freight Reimbursement \(OFR\) Program](#)

APPENDIX D: Funding Programs by Assistance Type

Grants

- [Advanced Research Projects Agency-Energy \(ARPA-E\) Grant](#), *Technical Assistance*
- [Advanced Transportation and Congestion Management Technologies Deployment Program Grant](#)
- [Biological Oceanography \(BioOce\)](#) *Discretionary Grant*
- [Building Pathways to Infrastructure Jobs H-1B Skills Training Grant](#) *Discretionary Grant*
- [Building Resilient Infrastructure and Communities \(BRIC\)](#) *Discretionary Grant*
- [Chemical Oceanography](#) *Discretionary Grant*
- [Civil Infrastructure Systems \(CIS\)](#) *Discretionary Grant*
- [Clean Ports Program](#) *Competitive Grant*
- [Clean Vessel Act \(CVA\) Grant](#) *Discretionary Grant*
- [Coastal & Estuarine Land Conservation Program \(CELCP\)](#) *Archived, Discretionary Grant*
- [Coastal Program](#) *Discretionary Grant, Cooperative Agreement*
- [Coastal Program – Great Lakes Restoration Initiative](#) *Archived, Discretionary Grant, Cooperative Agreement*
- [Coastal Resilience Grants Program](#) *Grant*
- [Coastal Science, Engineering & Education for Sustainability \(SEES\)](#) *Archived, Discretionary Grant*
- [Congestion Mitigation & Air Quality Improvement \(CMAQ\) Program](#) *Formula Grant*
- [Consolidated Rail Infrastructure and Safety Improvements \(CRISI\) Grants](#) *Discretionary Grant*
- [Cooperative Endangered Species Conservation Fund / Section 6 Grants \(CESCF\)](#) *Grant, Cost-Match*
- [Critical Sector Job Quality Grants](#) *Discretionary Grant*
- [Cyber-Physical Systems \(CPS\)](#) *Discretionary Grant*
- [Decision Frameworks for Multi-Hazard Resilient & Sustainable Buildings \(RSB\)](#) *Archived, Grant, No-Match*
- [Diesel Emissions Reduction Act \(DERA\) Funding Assistance Program](#) *Discretionary Grant*
- [Diesel Emissions Reduction Act \(DERA\) Tribal and Insular Area Grants](#) *Competitive Grant*
- [Economic Development Assistance Programs](#) *Discretionary Grant*
- [Electric or Low-Emitting Ferry Pilot Program](#) *Discretionary Grant*
- [Emergency Relief Program](#) *Grant*
- [Endangered Species Conservation – Recovery Implementation Funds](#) *Discretionary Grant, Cooperative Agreement*
- [Energy for Sustainability](#) *Archived, Discretionary Grant*
- [Engineering for Natural Hazards \(ENH\)](#) *Archived, Discretionary Grant*
- [Environmental Sustainability](#) *Discretionary Grant*
- [ERDC Broad Agency Announcement \(BAA\)](#) *Discretionary Grant*
- [Ferry Boat Program \(FBP\)](#) *Formula Grant*
- [Ferry Service for Rural Communities Program](#) *Discretionary Grant*
- [Fire Prevention & Safety Grant Program](#) *Archived, Grant, Cost-Match*
- [Flood Mitigation Assistance \(FMA\) Grant Program](#) *Discretionary Grant, Cost-Match*
- [Geotechnical Engineering & Materials \(GEM\)](#) *Archived, Discretionary Grant*
- [Hazard Mitigation Grant Program \(HMGP\)](#) *Cost-Share Grant*
- [Hazardous Materials Instructor Training Grants \(HMIT\)](#) *Discretionary Grant*
- [Homeland Security Grant Program \(HSGP\)](#) *Formula Grant*
- [Humans, Disasters, and the Built Environment \(HDBE\)](#) *Grant*

- [Infrastructure for Rebuilding America \(INFRA\) Grants](#) *Discretionary Grant*
- [Integrated Ocean Observing System \(IOOS\) Ocean Technology Transition \(OTT\) Project](#) *Discretionary Grant*
- [Local Development Districts \(LDD\) Capacity Building Program](#) *Non-Competitive Grant*
- [Local Development Districts Community Support Pilot Program](#) *Non-Competitive Grant*
- [Marine Debris Removal Grant](#) *Competitive Grant, Cooperative Agreement*
- [Marine Highway Program](#) *Competitive Grant*
- [Marine Mammal Commission Research Program](#) *Discretionary Grant*
- [Maritime Heritage Grants](#) *Grant, Cost-Match*
- [Metropolitan Planning Program \(MPP\)](#) *Formula Grant*
- [National Coastal Wetlands Conservation Grant Program](#) *Grant, Cost-Match*
- [National Highway Performance Program](#) *Formula Grant*
- [National Infrastructure Project Assistance or “Megaprojects”](#) *Discretionary Grant*
- [National Priorities: Life Cycle Costs of Water Infrastructure Alternatives](#) *Archived, Grant, Cost-Match*
- [Natural Hazards Engineering Research Infrastructure \(NHERI\)](#) *Archived, Discretionary Grant*
- [Next-Generation Marine Energy Systems](#) *Archived, Grant*
- [NOAA Broad Agency Announcement \(BAA\)](#) *Cooperative Agreement, Grant*
- [Ocean Drilling Program \(ODP\)](#) *Discretionary Grant*
- [Ocean Freight Reimbursement \(OFR\) Program](#) *Discretionary Grant*
- [Ocean Technology & Interdisciplinary Coordination \(OTIC\) Program](#) *Discretionary Grant*
- [Oceanographic Facilities & Equipment Support](#) *Discretionary Grant*
- [Operations Engineering \(OE\) Program](#) *Grant*
- [Passenger Ferry Grant Program](#) *Discretionary Grant*
- [Physical Oceanography](#) *Discretionary Grant*
- [Planning Program and Local Technical Assistance Program](#) *Discretionary Grant*
- [Pollution Prevention \(P2\) Grant Programs](#) *Grant, Cooperative Agreement, Cost-Match*
- [Port Infrastructure Development Program \(PIDP\)](#) *Competitive Grant*
- [Port Security Grant Program \(PSGP\)](#) *Grant, Cost-Match*
- [Prediction of and Resilience against Extreme Events \(PREEVENTS\)](#) *Archived, Discretionary Grant*
- [Pre-Disaster Mitigation \(PDM\) Grant Program](#) *Grant, Cost-Match*
- [Rebuilding American Infrastructure with Sustainability and Equity \(RAISE\)](#) *Discretionary Grant*
- [Reconnecting Communities and Neighborhoods \(RCN\) Grant Program](#) *Discretionary Grant*
- [Secure and Trustworthy Cyberspace \(SaTC\)](#) *Grant*
- [Securing the Cities Program Archives from DHS](#) *Archived, Discretionary Grant*
- [Small Shipyard Grants Program](#) *Discretionary Grant*
- [Source Reduction Assistance Grant Program \(SRA\)](#) *Grant, Cooperative Agreement, Cost-Match*
- [States' Economic Development Assistance Program \(SEDAP\)](#) *Competitive Grant*
- [Strengthening Mobility and Revolutionizing Transportation \(SMART\) Grants](#) *Discretionary Grant*
- [Structural and Architectural Engineering and Materials \(SAEM\)](#) *Archived, Discretionary Grant*
- [Supplemental Public Sector Training \(SPST\) Grant](#) *Discretionary Grant*
- [Surface Transportation Block Grant Program](#) *Formula Grant*
- [Targeted Airshed Grant Program](#) *Competitive Grant*
- [Transit Security Grant Program \(TSGP\)](#) *Competitive Grant*
- [Transportation Alternatives Set-Aside](#) *Formula Grant*

- [University Transportation Center \(UTC\) Program 2022-2026 Grants](#) *Discretionary Grant, Competitive Grant*
- [Wetland Program Development Grants \(WPDGs\)](#) *Grant, Cost-Match*
- [Women in Apprenticeship and Nontraditional Occupations \(WANTO\)](#) *Discretionary Grant*
- [Workforce Innovation and Opportunity Act \(WIOA\) Programs](#) *Formula Grant*
- [Workforce Opportunities for Rural Communities \(WORC\)](#) *Discretionary Grant*

Loans

- [Corps Water Infrastructure Financing Program \(CWIFP\)](#) *Loan, Long-Term, Low-Cost Credit Assistance*
- [Disaster Loan Assistance](#) *Loan*
- [Farm Storage Facility Loan Program](#) *Loan*
- [Federal Ship Financing Program \(Title XI\)](#) *Loan Guarantee*
- [General Small Business Loans \(7A\)](#) *Loan*
- [Railroad Rehabilitation & Improvement Financing \(RRIF\)](#) *Direct Loan, Loan Guarantee*
- [SBA 504 Loan Program](#) *Loan*
- [Section 129 Loans](#) *Loan Leverage Tool*
- [State Infrastructure Banks \(SIBs\)](#) *Loan Leverage Tool*
- [Transportation Infrastructure Finance & Assistance Act \(TIFIA\)](#) *Secured Loan, Credit Line, Loan Guarantee*
- [Water Infrastructure Finance and Innovation Act \(WIFIA\)](#) *Loan*

Other

- [Advanced Technology Solutions for Unconventional Oil and Gas Development](#) *Archived, Cooperative Agreement*
- [Business Energy Investment Tax Credit \(ITC\)](#) *Financial Incentive, Corporate Tax Credit*
- [Capital Construction Fund \(CCF\) Program](#) *Tax Deferral*
- [Clean Ports Program](#) *To Be Determined*
- [Construction Reserve Fund \(CRF\)](#) *Tax Deferral*
- [Continuing Authorities Program \(CAP\)](#) *Project Development, Cost Share*
- [Critical Resilient Interdependent Infrastructure Systems and Processes \(CRISP 2.0\)](#) *Archived*
- [Department of Energy Unsolicited Proposal Office](#) *Financial Incentive, Technical Assistance*
- [Grant Anticipation Revenue Vehicles \(GARVEEs\)](#) *Bonds Repaid*
- [Marine & Hydrokinetic Systems Performance Advancement II](#) *Archived, Cooperative Agreement, Cost-Share*
- [Maritime Environmental and Technical Assistance \(META\) Program](#) *Cooperative Agreement, Technical Assistance*
- [NOAA Physical Oceanographic Real Time System \(PORTS\)](#) *Direct Congressional Appropriation*
- [Off-Hours Freight Delivery](#) *Archived, Cooperative Agreement*
- [Private Activity Bonds \(PABs\)](#) *Tax Exempt, Municipal Bond*
- [Projects of National & Reginal Significance \(General Fund\)](#) *Archived, Increased Federal Share*
- [Renewable Electricity Production Tax Credit \(PTC\)](#) *Financial Incentive, Corporate Tax Credit*
- [USACE Flood Risk Management Services \(FRMS\)](#) *Technical Assistance*
- [USACE Planning Assistance to States](#) *Technical Assistance*

References

- Bureau of Transportation Statistics. (2021, May 12). *On National Maritime Day and Every Day, U.S. Economy Relies on Waterborne Shipping*. Retrieved from <https://www.bts.gov/data-spotlight/national-maritime-day-and-every-day-us-economy-relies-waterborne-shipping#:~:text=Maritime%20vessels%20account%20for%2040,any%20other%20mode%20of%20transportation>
- Federal Maritime Commission. (2015, July). *U.S. Container Port Congestion & Related International Supply Chain Issues: Causes, Consequences & Challenges*. Retrieved from https://www.fmc.gov/wp-content/uploads/2019/04/PortForumReport_FINALwebAll.pdf
- Statista. (2023, December 18). *Maritime industry in the United States (U.S.) - statistics & facts*. Retrieved from <https://www.statista.com/topics/10332/maritime-industry-in-the-us/#topicOverview>
- U.S. Census Bureau. (2023, November 9). *U.S. Population Projected to Begin Declining in Second Half of Century*. Retrieved from <https://www.census.gov/newsroom/press-releases/2023/population-projections.html>