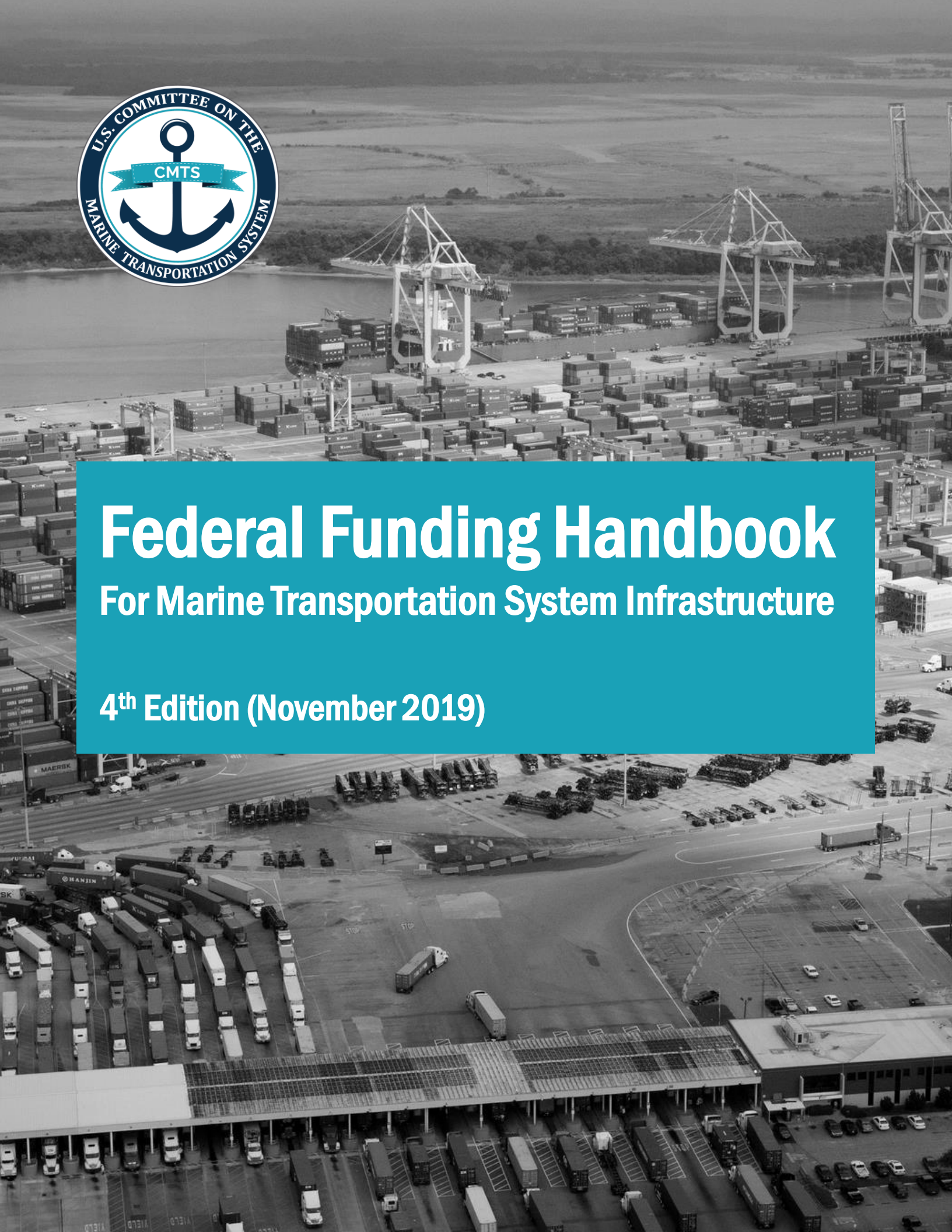

Federal Funding Handbook

For Marine Transportation System Infrastructure

4th Edition (November 2019)

Prepared by the U.S. Committee on the Marine Transportation System
Infrastructure Investment Integrated Action Team

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Introduction

The U.S. Committee on the Marine Transportation System (CMTS) is a Federal Cabinet-level partnership of 25+ Federal Government departments, agencies, and bureaus directed under statute to coordinate and recommend policies related to maritime transportation. The CMTS was chartered in July 2005 and authorized in December 2012. The CMTS is directed in 46 U.S.C. §55501 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, 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 aid 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 interest and engagement in transportation, and particularly, maritime transportation is spread across over 25 agencies and organizations. Accordingly, funding for the MTS is found in an array of locations and mechanisms. This Handbook contains 75 authorized Federal multimodal transportation infrastructure funding, financing, and technical assistance programs for infrastructure in the MTS through fiscal year (FY) 2019. This Handbook also includes a limited number of forecasted grants to start after FY 2019. 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. The full listing of program descriptions can be found on the General Services Administration's website.

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. 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. Visit the website for more information about Loans vs. Grants.

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:

Build America Bureau, Department of Transportation (DOT)

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 TIFIA and Railroad Rehabilitation & Improvement Financing loan programs, Private Activity Bonds (PABs), and the 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, Department of Transportation

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 federally 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/.

Water Infrastructure and Resiliency Finance Center, Environmental Protection Agency

The Environmental Protection Agency's (EPA) 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. For more information about the Clearinghouse, visit their website: www.epa.gov/wfc.

Ports Initiative, Environmental Protection Agency

In support of the Ports Initiative, the EPA has additionally developed a list of funding opportunities for ports and near-port communities. Many of the funding opportunities may also 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.

Grants.gov Frequently Asked Questions

Grants.gov has an extensive Frequently Asked Questions by Applicants page on their website: https://www.grants.gov/web/grants/applicants/applicant-faqs.html. In addition, the Grants.gov Support Page provides further information: https://www.grants.gov/web/grants/support.html

Handbook Organization

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

The 2019 issue is organized in 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, CFDA.gov, Notice of Funding Opportunities, and/or program pages). There are four 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.

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 Aware 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.

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 a MPO. The same goes for Federal Emergency Management Agency (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 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
BUILD	Better Utilizing Investments to Leverage Development
DOE	U.S. Department of Energy
DOT	U.S. Department of Transportation
CFR	Code of Federal Regulations
CMTS	U.S. Committee on the Marine Transportation System
CZMA	Coastal Zone Management Act
EDA	Economic Development Administration
EPA	U.S. Environmental Protection Agency
FAST Act	Fixing America's Surface Transportation Act
FHWA	Federal Highway Administration
FWS	Fish & Wildlife Service
FY	Fiscal Year
INFRA	Infrastructure for Rebuilding America
IRS	Internal Revenue Service
MAP-21	Moving Ahead for Progress in the 21st Century
MPO	Metropolitan Planning Organization
MTS	Marine Transportation System
NHS	National Highway System
NOAA	National Oceanic and Atmospheric Administration
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
TIGER	Transportation Investment Generating Economic Recovery
USACE	U.S. Army Corps of Engineers
U.S.C.	U.S. Code
WIFIA	Water Infrastructure Finance and Innovation Act
WRDA	Water Resources Development Act

Funding Programs

(A) Infrastructure

1. Advanced Transportation and Congestion Management Technologies Deployment Program

Keywords: Ports, Transportation, Safety, Efficiency, Infrastructure
Assistance Type: Grant
Agency: 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. Better Utilizing Investments to Leverage Development (BUILD)

Keywords: Ports, Transportation, Ports, Maritime, Roads, Rail
Assistance Type: Discretionary Grant
Agency: Department of Transportation
Purpose: Previously known as the Transportation Investment Generating Economic Recovery (TIGER) Discretionary Grants (originally from ARRA), the BUILD grant provides a unique opportunity to invest in roads, rail, transit, and port projects based on national objectives.
Award Ceiling: $900 million in total funding available
Authorization: Consolidated Appropriations Act of 2019
Website: https://www.transportation.gov/BUILDgrants
Contact Information: Office of Infrastructure Finance and Innovation, BUILDgrants@dot.gov, 202-366-0301

3. Capital Construction Fund (CCF) Program

Keywords: Fishing, Marine, Vessels, Maritime, Economic Development
Assistance Type: Tax Deferral
Agency: Department of Commerce, National Oceanic & Atmospheric Administration; Department of Transportation, Maritime Administration
Purpose: To improve the fishing fleet by allowing fishermen to accelerate their accumulation of funds with which to replace or improve their fishing vessels. The Capital Construction Fund Program enables fishermen to construct, reconstruct or acquire fishing vessels with before-tax, rather than after-tax dollars.
Award Ceiling: N/A
Authorization: Merchant Marine Act of 1936 as amended (46 U.S.C. 1177)
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, 301-427-8728

4. Construction Reserve Fund (CRF)

Keywords: Transportation, Vessel, Maritime
Assistance Type: Tax Deferral
Agency: 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.
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. 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.fbo.gov/index?s=opportunity&mode=form&id=e6ba2a5670c2191885b176606856288b&tab=core&_cview=0
Contact Information: Reginald Bryant, ERDC Contracting Office, 601-634-7166, ERDC-BAA@usace.army.mil

6. Farm Storage Facility Loan Program

Keywords: Agriculture, Storage
Assistance Type: Loan
Agency: U.S. Department of Agriculture, 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

7. Federal Ship Financing Program (Title XI)

Keywords: Transportation, Vessel, Maritime
Assistance Type: Loan Guarantee
Agency: 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

8. Ferry Boat Program (FBP)

Keywords: Transportation, Ferry, Maritime
Assistance Type: Formula Grant, using Bureau of Transportation Statistics National Census of Ferry Operators
Agency: Department of Transportation, Federal Highway Administration
Purpose: Federal-aid highway funds are available, through the State transportation agencies, for designing and constructing ferry boats and for designing, acquiring right-of-way, and constructing ferry terminal facilities. Ferry boats and terminal facilities that serve vehicular travel as links on public highways (other than Interstate highways), as well as ferry boats and terminals only serving passengers as a fixed route transit facility, may be eligible for certain types of Federal-aid highway funding.
Award Ceiling: N/A
Authorization: Fixing America's Surface Transportation (FAST) Act, 2015; Title 23 U.S.C., section 147
Website: https://www.fhwa.dot.gov/fastact/factsheets/ferryboatfs.cfm; https://www.fhwa.dot.gov/specialfunding/fbp/
Contact Information: Katie Hulbert, kathleen.hulbert@dot.gov, 202-809-4758

9. Grant Anticipation Revenue Vehicles (GARVEEs)

Keywords: Transportation, Roads, Rail
Assistance Type: Bonds Repaid, all or in part, by future Federal-aid funds
Agency: 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 123 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

10. Infrastructure for Rebuilding America (INFRA) Grants

Keywords: Ports, Transportation, Infrastructure, Maritime, Roads, Rail
Assistance Type: Discretionary Grant
Agency: Department of Transportation, Office of the Secretary of Transportation
Purpose: Infrastructure for Rebuilding America (INFRA) discretionary grants support the Administration's commitment to fixing our nation's infrastructure by creating opportunities for all levels of government and the private sector to fund infrastructure, using innovative approaches to improve the processes for building significant projects, and increasing accountability for the projects that are built. In addition to providing direct Federal funding, the INFRA discretionary grant program aims to increase the total investment by state, local, and private partners. INFRA advances a grant program established in the 2015 Fixing America's Surface Transportation (FAST) Act and utilizes updated criteria for evaluating projects to align them with national and regional economic vitality goals. The program increases the impact of projects by leveraging Federal grant funding and incentivizing project sponsors to pursue innovative strategies, including public-private partnerships.
Award Ceiling: In FY2019, nearly $856 million were awarded.
Authorization: Fixing America's Surface Transportation (FAST) Act, 2015
Website: https://www.transportation.gov/buildamerica/infragrants
https://www.transportation.gov/buildamerica/infra/infra-notice-funding-opportunity
Contact Information: For information about highway projects, Contact Information Crystal Jones, crystal.jones@dot.gov, 202-366-2976. For information about maritime projects, Contact Information Robert Bouchard, Robert.bouchard@dot.gov, 202-366-2976. For information about rail projects, Contact Information Stephanie Lawrence, Stephanie.lawrence@dot.gov, 202-493-1396. For all other questions, Contact Information Howard Hill, howard.hill@dot.gov, 202-366-0301. A TDD is available for individuals who are deaf or hard of heard at 202-366-3993.

11. Marine Highway Grants

Keywords: Ports, Infrastructure, Maritime, Development
Assistance Type: Project Grants
Agency: Department of Transportation, Maritime Administration
Purpose: Assistance will be used to expand the use of water transportation through designated Marine Highway Projects to create new or expand existing services along designed Marine Highway Routes. Components of projects that are eligible for grant funding include the following: port and terminal infrastructure, cargo, efficiency or capacity improvements, investments that improve environmental sustainability, new or used vessel purchase, lease or modification, Marine Highway demonstration projects of a limited duration, and planning, preparation and design efforts in support of Marine Highway Projects. Only sponsors of designated Marine Highway Projects are eligible to apply for Marine Highway Grants.
Award Ceiling: FY2019 Total Funding is $7,000,000
Authorization: The Consolidated Appropriations Act of 2019. This authorization appropriated to the Short Sea Transportation Program, commonly referred to as "Highway Program" (AMHP).
Website: https://www.maritime.dot.gov/grants-finances/marine-highways/grants;
https://www.maritime.dot.gov/newsroom/press-releases/maritime-administration-awards-67-million-grants-marine-highway-projects-1
Contact Information: Office of Marine Highways and Passenger Services, MH@dot.gov, 202-366-2320

12. Metropolitan Planning

Category: Department of Transportation, Federal Highway Administration
Assistance Type: Formula Grant
Keywords: Roadway & Railway Corridors, Port Development
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/Federal Transit Administration responsibility.
Website: http://www.fhwa.dot.gov/map21/mp.cfm
Contact Information: Harlan Miller, Harlan.Miller@dot.gov, 202-366-0847
Authorization: MAP-21, 2012; FAST Act § 1201; 23 U.S.C. 134

13. National Highway Performance Program

Keywords: Transportation, Roads, Highway
Assistance Type: Formula Grant
Agency: 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: Fixing America's Surface Transportation (FAST) Act, 2015
Website: https://www.fhwa.dot.gov/specialfunding/nhpp/160309.cfm
Contact Information: David Bartz, David.Bartz@dot.gov, 512-417-5191

14. Passenger Ferry Grant Program

Keywords: Transportation, Ferry, Maritime
Assistance Type: Discretionary Grant
Agency: 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: FY2019 provided nearly $33 million in funding
Authorization: Moving Ahead for Progress in the 21st Century (MAP-21) and the FAST Act
Website: https://www.transit.dot.gov/funding/grants/passenger-ferry-grant-program-section-5307
Contact Information: Vanessa Williams, vanessa.williams@dot.gov, 202-366-2053

15. Port Infrastructure Development Program

Keywords: Security, Infrastructure, Ports, Maritime, Resilience
Assistance Type: Competitive Grant
Agency: Department of Transportation, Maritime Administration
Purpose: The Port Infrastructure Development Program is a Congressionally legislated competitive grant program for coastal seaports. A coastal seaport is defined as a port that can accommodate deep-draft vessels (20-foot draft or greater) directly from other foreign or domestic seaports. Eligible projects for this program are those that; (1) are within the boundaries of a coastal seaport; or, (2) are outside the

boundaries of a coastal seaport and directly related to port operations or to an intermodal connection to a port. Projects will help improve the safety, efficiency, or reliability of the movement of goods into, out of, around, or within a port, as well as the unloading and loading of cargo at a port.
Award Ceiling: Total funding available is $292.73 million.
Authorization: Consolidated Appropriations Act, 2019 (Pub. L, 116-6, February 15, 2019)
Website: https://www.maritime.dot.gov/PIDPgrants
Contact Information: Maritime Administration, ports@dot.gov, 202-366-7678

16. Ports & Waterways Construction

Keywords: Infrastructure, Ports, Construction, Navigation, Maritime
Assistance Type: Direct Congressional appropriation w/ non-federal match
Agency: U.S. Army Corps of Engineers
Purpose: To provide technical planning, engineering, design, and project management expertise for construction projects, to address critical water resource issues, including navigation, flood mitigation, environmental restoration, hydropower & water supply, and other authorized purposes on the Mississippi River and its tributaries. These funds would be available through Congressionally authorized projects cost-shared with a non-federal, 529 taxing authority sponsor.
Authorization: Annual Appropriations Bills (Project specific authorizations)
Award Ceiling: N/A
Website: http://www.usace.army.mil/Missions/CivilWorks.aspx
Contact Information: Local USACE District

17. Private Activity Bonds (PABs)

Keywords: Transportation, Infrastructure, Roads, Rails, Port Development
Assistance Type: Tax Exempt Municipal Bond
Agency: Department of Transportation, Federal Highway & Transit Administrations
Purpose: To provide maximum flexibility in the Secretary's award of the $15 billion bonding authority and increase public-private partnerships or essentially private involvement in infrastructure development.
Award Ceiling: N/A
Authorization: Safe Accountable Flexible Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU), 2005
Website:
http://www.fhwa.dot.gov/ipd/finance/tools_programs/federal_debt_financing/private_activity_bonds/
Contact Information: Paul Baumer, paul.baumer@dot.gov, 202-366-2300

18. Railroad Rehabilitation & Improvement Financing (RRIF)

Keywords: Transportation, Rail
Assistance Type: Direct Loans/Loan Guarantees
Agency: Department of Transportation, Federal Railroad Administration
Purpose: 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. Reimburse planning and design expenses relating to activities listed above; (3) Refinance outstanding debt incurred for the purposes listed above; and (4) Finance transit-oriented development (credit assistance only available until December 4, 2019).
Award Ceiling: Total funding available is $35 billion

Authorization: Title V of the Railroad Revitalization and Regulatory Reform Act of 1976, as amended (45 U.S.C. § 821 et seq.)
Website: https://www.transportation.gov/buildamerica/programs-services/rrif
Contact Information: BuildAmerica@dot.gov, 202-366-2300

19. Real Estate & Equipment Loans (SBA 504 Loan Program)

Keywords: Business, Economy, Real Estate, Loans
Assistance Type: Loan
Agency: Small Business Administration
Purpose: To provide approved small businesses with long-term, fixed-rate financing used to acquire fixed assets for expansion or modernization.
Award Ceiling: Maximum loan amounts are determined by whether funds will be used to support job creation, public policy and/or small manufacturing.
Website: https://www.sba.gov/offices/headquarters/ofa/resources/4049
Contact Information: To connect with SBA approved lenders, visit the lender match page.

20. Section 129 Loans

Keywords: Transportation, Roads
Assistance Type: Loan Leverage Tool
Agency: 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, Team Leader, FHWA Office of Innovative Program Delivery, Mark.sullivan@dot.gov, 202-366-5785

21. Small Shipyard Grants Program

Keywords: Transportation, Vessel, Maritime
Assistance Type: Discretionary Grant
Agency: Department of Transportation, Maritime Administration
Purpose: The purpose of the Program is 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: Total funding available is $20,000,000
Authorization: Section 3501 of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232), 46 U.S.C. § 54101.
Website: https://www.maritime.dot.gov/grants/small-shipyard-grants
Contact Information: David Heller, David.Heller@dot.gov, 202-366–5737

22. State Infrastructure Banks (SIBs)

Keywords: Transportation, Public-Private-Partnerships, Roads, Rail
Assistance Type: Loan Leverage Tool
Agency: Department of Transportation, Federal Highway Administration
Purpose: State Infrastructure Banks 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 of the U.S. Code
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

23. Surface Transportation Block Grant Program

Keywords: Transportation, Roads
Assistance Type: Formula Grant
Agency: 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: FAST Act, 2015
Website: https://www.fhwa.dot.gov/specialfunding/stp/160307.cfm
Contact Information: David Bartz, David.Bartz@dot.gov, 512-417-5191

24. Transportation Alternatives Set-Aside

Keywords: Transportation, Bicycles, Pedestrian, Roads, Rail, Ports
Assistance Type: Formula Grant
Agency: 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 projects for the planning, design, or construction of boulevards and other roadways largely in the right-of-way of former Interstate System routes or other divided highways.
Award Ceiling: FY2019 total funding available is $850 million
Authorization: FAST Act, 2015
Website: https://www.fhwa.dot.gov/environment/transportation_alternatives/
Contact Information: Christopher Douwes, FHWA, Christopher.Douwes@dot.gov, 202-366-5013

25. Transportation Infrastructure Finance & Innovation Act (TIFIA)

Keywords: Transportation, Public-Private-Partnerships, Roads, Rail, Intermodal Facilities, Ports
Assistance Type: Secured Loans, Credit Lines & Loan Guarantees

Agency: Department of Transportation, Build America Bureau
Purpose: To leverage limited Federal resources and stimulate capital market investment in transportation by providing credit assistance in the form of direct loans, loan guarantees, and standby lines of credit (rather than grants) to projects of national or regional significance. Key objectives include: facilitating projects with significant public benefits; encouraging new revenue streams and private participation; filling capital market gaps for secondary/subordinate capital; be a flexible, "patient" investor willing to take on investor concerns about investment horizon, liquidity, predictability and risk; and limiting Federal exposure by relying on market discipline. Rolling application process.
Award Ceiling: N/A
Authorization: Fixing America's Surface Transportation (FAST) Act, 2015
Website: https://www.transportation.gov/buildamerica/programs-services/tifia
Contact Information: BuildAmerica@dot.gov, 202-366-2300

26. 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: WRDA of 2014
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

27. Water Infrastructure Finance and Innovation Act (WIFIA)

Keywords: Infrastructure, Water
Assistance Type: Loan
Agency: 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, $5 million is the minimum project size for small communities
Authorization: The Water Infrastructure Finance and Innovation Act (WIFIA), 2014, Fixing America's Surface Transportation 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

28. Economic Development Assistance Programs

Keywords: Economic Development, Job Creation, Rural
Assistance Type: Grant/Cooperative Agreement
Agency: Department of Commerce, Economic Development Administration
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/web/grants/view-opportunity.html?oppId=290874
Contact Information: State-Specific Economic Development Representatives. See EDA's website at https://www.eda.gov/contact/.

29. General Small Business Loans (7A)

Keywords: Economy, Business
Assistance Type: Loan
Agency: 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 SBA 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: https://www.sba.gov/partners/lenders/7a-loan-program/types-7a-loans
Contact Information: disastercustomerservice@sba.gov

30. 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.

31. Planning Program & Local Technical Assistance Program

Keywords: Economic Development, Resilience
Assistance Type: Discretionary Grant
Agency: Department of Commerce, Economic Development Administration
Purpose: To provide investments supporting planning and technical assistance projects under EDA's Planning and Local Technical Assistance programs. Under the Planning program EDA assists eligible recipients in creating regional economic development plans designed to build capacity and guide the economic prosperity and resiliency of an area or region.
Award Ceiling: $300,000
Authorization: Sections 203 (42 U.S.C. § 3143) and 207 (42 U.S.C. § 3147) of Public Works and Economic Development Act
Website: http://www.eda.gov/funding-opportunities/
https://www.grants.gov/web/grants/view-opportunity.html?oppId=280447
Contact Information: https://www.eda.gov/contact/

32. Workforce Innovation and Opportunity Act (WIOA) Programs

Keywords: Economic Development, Training
Assistance Type: Formula Grant
Agency: 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: Workforce Innovation and Opportunity Act (WIOA)
Website: https://www.doleta.gov/wioa/
Contact Information: DOL.WIOA@dol.gov

(C) Energy

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

Keywords: Energy, Technology, Research
Assistance Type: Grants, Technical Assistance
Agency: 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: Contact Us page https://arpa-e.energy.gov/?q=arpa-e-site-page/contact-us

34. Business Energy Investment Tax Credit (ITC)

Keywords: Energy, Technology, Tax Credit
Assistance Type: Financial Incentive/Corporate Tax Credit
Agency: Department of Energy (DOE) and Internal Revenue Service (IRS)
Purpose: Federal corporate tax credit applicable to commercial, industrial, utility, and agricultural sectors. 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: 26 USC § 48, IRS Form 3468, H.R. 1892 (Bipartisan Budget Act of 2018)
Website: https://www.irs.gov/forms-pubs/about-form-3468; http://programs.dsireusa.org/system/program/detail/658
Contact Information: Department of Energy, 202-586-5000

35. Department of Energy Unsolicited Proposal Office

Keywords: Energy, Research & Development, Unsolicited
Assistance Type: Financial Incentive/ Technical Assistance
Agency: Department of Energy, National Energy Technology Laboratory
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: N/A
Website: http://www.netl.doe.gov/business/unsolicited-proposals
Contact Information: John N. Augustine, DOEUSP@NETL.DOE.GOV

36. Renewable Electricity Production Tax Credit (PTC)

Keywords: Energy, Tax Credit, Electricity
Assistance Type: Financial Incentive/Corporate Tax Credit
Agency: 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 for all facilities placed in service after August 8, 2005.
Award Ceiling: N/A
Authorization: 26 USC § 45, H.R. 1892 (Bipartisan Budget Act of 2018)
Website: https://energy.gov/savings/renewable-electricity-production-tax-credit-ptc
http://www.irs.gov/pub/irs-pdf/f8835.pdf
https://fas.org/sgp/crs/misc/R43453.pdf
Contact Information: U.S. Internal Revenue Service, (800) 829-1040

(D) Resilience

37. Civil Infrastructure Systems

Keywords: Infrastructure, Resilience
Assistance Type: Discretionary Grant
Agency: National Science Foundation
Purpose: The Civil Infrastructure Systems (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://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13352
Contact Information: Georgia-Ann Klutke, gaklutke@nsf.gov, (703) 292-2443; Walter G. Peacock, wpeacock@nsf.gov, (703) 292-2634

38. Coastal Resilience Grants Program

Keywords: Resilience, Coastal Communities, Extreme Weather, Climate
Assistance Type: Grant
Agency: 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 form extreme weather events and climate-related hazards.
Award Ceiling: N/A
Authorization: Fish & Wildlife Coordination Act; Magnuson-Stevens Fishery Conservation & Management Reauthorization Act (2006); & Endangered Species Act.
Website: https://coast.noaa.gov/resilience-grant/
Contact Information: NOAA Office for Coastal Management https://coast.noaa.gov/contactform/

39. Continuing Authorities Program

Keywords: Infrastructure, Community, Erosion, Storm Damage, Resilience, Flood Control, Navigation
Assistance Type: Project Development/Cost Share
Agency: U.S. Army Corps of Engineers (USACE)
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.
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: US Army Corps of Engineers - District Office Program Manager

40. Disaster Loan Assistance

Keywords: Resilience, Disaster, Economy
Assistance Type: Loan
Agency: Small Business Administration
Purpose: 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: As a business of any size, you may borrow up to $2 million for physical damage. As a small business, small agricultural cooperative, small business engaged in aquaculture, or private non-profit organization you may borrow up to $2 million for economic injury. As a small business, you may apply for a maximum business loan (physical and EIDL) of $2 million. As a homeowner, you may borrow up to $200,000 to repair/replace your disaster damaged primary residence. As a homeowner or renter, you may borrow up to $40,000 to repair/replace damaged personal property.
Authorization: N/A
Website: https://disasterloan.sba.gov/ela/
https://www.sba.gov/loans-grants/see-what-sba-offers/sba-loan-programs/disaster-loans
Contact Information: If you need additional assistance or information, the Customer Service Center can be reached by phone at 1-800-659-2955 or by email at disastercustomerservice@sba.gov.

41. Emergency Relief Program

Keywords: Transportation, Emergency, Disaster, Roads
Assistance Type: Grant
Agency: 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: Total funding available is $1 million
Authorization: Fixing America's Surface Transportation (FAST) Act, 2015; Title 23 U.S. Code, Section 125
Website: https://www.fhwa.dot.gov/specialfunding/er/fastact_qa.cfm
Contact Information: Greg Wolf, Office of Program Administration, Greg.Wolf@dot.gov, 202-366-4655

42. Flood Mitigation Assistance (FMA) Grant Program

Category: Department of Homeland Security, Federal Emergency Management Agency
Assistance Type: Grant/Cost-Match
Keywords: Resilience
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.
Authorization: Section 1366 of the National Flood Insurance Act of 1968, as amended, 42 U.S.C. 4104c
Website: https://www.fema.gov/flood-mitigation-assistance-grant-program
Contact Information: MTeGrants@fema.dhs.gov

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

Keywords: Resilience, Infrastructure
Assistance Type: Grant
Agency: National Science Foundation
Purpose: The program supports fundamental, multidisciplinary research on the interactions between humans and the built environment within and among communities exposed to natural, technological and other types of hazards and disasters. The program's context is provided by ongoing and emerging changes in three interwoven elements of a community: its population, its built environment (critical infrastructures, physical and virtual spaces, and buildings and related structures) and the hazards and disasters to which it is exposed. The HDBE program seeks research that integrates these elements and that can contribute to theories that hold over a broad range of scales and conditions.
Award Ceiling: N/A
Authorization: N/A
Website: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13353
Contact Information: Walter Gillis Peacock, wpeacock@nsf.gov, (703) 292-2634

44. Pre-Disaster Mitigation Grant Program

Category: Department of Homeland Security, Federal Emergency Management Agency
Assistance Type: Grant/Cost-Match
Keywords: Resilience
Purpose: To assist States, U.S. Territories, federally-recognized tribes, and local communities in implementing a sustained pre-disaster natural hazard mitigation program. The goal is to reduce overall risk to the population and structures from future hazard events, while also reducing reliance on funding in future disasters. This program awards planning and project grants and provides opportunities for raising public awareness about reducing future losses before disaster strikes. Mitigation planning is a key process used to break the cycle of disaster damage, reconstruction, and repeated damage. PDM grants are funded annually by Congressional appropriations and are awarded on a nationally competitive basis.
Authorization: Robert T. Stafford Disaster Relief and Emergency Assistance Act, Public Law 93-288, as amended, (42 U.S.C. 5133)
Website: https://www.fema.gov/pre-disaster-mitigation-grant-program
Contact Information: MTeGrants@fema.dhs.gov

45. USACE Flood Risk Management Services (FRMS)

Keywords: Infrastructure, Community, Flood Management, Resilience
Assistance Type: Technical Assistance
Agency: U.S. Army Corps of Engineers
Purpose: To provide technical services relevant to effective flood plain management.
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: US Army Corps of Engineers - District Office Program Manager

(E) Safety and Security

46. Homeland Security Grant Program (HSGP)

Keywords: Security, Preparedness
Assistance Type: Formula Grant
Agency: Department of Homeland Security, Federal Emergency Management Agency
Purpose: To support state, local and tribal efforts to prevent terrorism and other catastrophic events and the prepare the Nation for the threats and hazards that post the greatest risk to the security of the Nation. The HSGP plays an important role in the implementation of the National Preparedness System by supporting the building, sustainment, and delivery of core capabilities essential to achieving the National Preparedness Goal of a security and resilient Nation. The HSGP supports efforts to build and sustain core capabilities across the five mission areas of Prevention, Protection, Mitigation, Response and Recovery based on allowable costs.
Award Ceiling: Total funding for the HSGP FY 2019 allocation is $1,095,000,000.
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: For additional program-specific information, please Contact Information the Centralized Scheduling and Information Desk (CSID) help line at 800-368-6498 or askcsid@dhs.gov.

47. Port Security Grant Program (PSGP)

Keywords: Security, Infrastructure, Ports, Training, Maritime, Resilience
Assistance Type: Grant/Cost-Match
Agency: 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: https://www.fema.gov/port-security-grant-program
Contact Information: Duane Davis, 202-786-9533, Duane.Davis@dhs.gov

48. Secure and Trustworthy Cyberspace (SaTC)

Keywords: Cyber-Infrastructure, Security, Privacy
Assistance Type: Grant
Agency: 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.
Authorization: N/A
Website: https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504709
Contact Information: Nina Amla, Program Director, CISE/CNS, namla@nsf.gov, 703-292-7991

49. Transit Security Grant Program (TSGP)

Keywords: Security, Public Transportation, Infrastructure, Security, Maritime, Resilience
Assistance Type: Competitive Grant
Agency: Department of Homeland Security, Federal Emergency Management Agency
Purpose: To provide funds to eligible publicly-owned operators of public transportation (which include ferries and other transit modes) to protect critical surface transportation infrastructure and the traveling public from acts of terrorism and to increase the resilience of transit infrastructure.
Award Ceiling: Total available funding for the TSGP is $88,000,000
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: For additional program-specific information, please Contact Information the Centralized Scheduling and Information Desk (CSID) help line at (800) 368-6498 or by email at askcsid@dhs.gov.

(F) Environment and Sustainability

50. Clean Diesel Funding Assistance Program

Keywords: Transportation, Environment, Emissions, Maritime, Diesel
Assistance Type: Discretionary Grant
Agency: Environmental Protection Agency
Purpose: To achieve significant reductions in diesel emissions in terms of tons of pollution produced by diesel engines and diesel emissions exposure, particularly from fleets operating at or servicing goods movement facilities located in areas designated as having poor air quality. 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 clean diesel 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. (See #51 Clean Diesel Tribal Grants below.)
Award Ceiling: The amount of Federal funding requested by an applicant must not exceed the amount specified for each Region specific in the request for proposals.
Authorization: Diesel Emissions Reduction Act, 2010.
Website: https://www.epa.gov/cleandiesel/clean-diesel-national-grants; https://www.epa.gov/cleandiesel/learn-about-clean-diesel
Contact Information: Clean Diesel Helpline, cleandiesel@epa.gov, 877-623-2322

51. Clean Diesel Tribal Grants

Keywords: Environment, Resilience, Transportation, Environment, Emissions, Maritime, Diesel
Assistance Type: Competitive Grant
Agency: Environmental Protection Agency
Purpose: EPA's Office of Transportation and Air Quality solicited applications nationwide for Tribal 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: Total funding available is $4 million
Authorization: Diesel Emissions Reduction Act, 2010.
Website: https://www.epa.gov/cleandiesel/clean-diesel-tribal-grants
Contact Information: Clean Diesel Helpline, cleandiesel@epa.gov, 877-623-2322

52. Clean Vessel Act Grant

Keywords: Environment, Resilience, Ports
Assistance Type: Discretionary Grant
Agency: Department of the Interior, Fish and Wildlife Service
Purpose: The Clean Vessel Act Grant Program (CVA) 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: https://wsfrprograms.fws.gov/Subpages/GrantPrograms/CVA/CVA.htm
Contact Information: Fish and Wildlife Service, 703-358-2156

53. Coastal Impact Assistance Program (CIAP)

Keywords: Environment, Coast, Wetlands, Marine, Conservation, Infrastructure
Assistance Type: Formula Grant
Agency: Department of the Interior, Fish & Wildlife Service
Purpose: To conserve, restore, or protect coastal areas including wetlands; mitigation of damage to fish, wildlife, or natural resources; planning assistance and the administrative costs of complying with these objectives; implementation of a federally-approved marine, coastal, or comprehensive conservation management plan; and mitigation of the impact of outer Continental Shelf activities through funding of onshore infrastructure projects and public service needs.
Award Ceiling: N/A
Authorization: Outer Continental Shelf Lands Act, as amended; 31 U.S.C. 6301-6305
Website: https://wsfrprograms.fws.gov/Subpages/GrantPrograms/CIAP/CIAP.htm
Contact Information: Program office can be contacted by emailing: r9wsfr_programs@fws.gov.

54. Coastal Program

Keywords: Environment, Fish, Wildlife, Coast, Habitat
Assistance Type: Discretionary/Cooperative Agreement
Agency: 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: $500,000
Authorization: Fish and Wildlife Coordination Act, Fish and Wildlife Act of 1956, National Wildlife Refuge System Improvement Act of 1997
Website: https://www.grants.gov/web/grants/search-grants.html?keywords=coastal%20program (Funding Opportunity #F19AS00027)
Contact Information: Samantha Brooke, Samantha_Brooke@fws.gov, 202-358-1829

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

Keywords: Air Quality, Congestion, Transportation, Environment
Assistance Type: Formula Grant
Agency: 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). The program is authorized from 2016 to 2020.
Award Ceiling: Total funding available is $2.5 billion
Authorization: Fast Act, 2015
Website: https://www.fhwa.dot.gov/fastact/factsheets/cmaqfs.cfm
Contact Information: Mark Glaze, mark.glaze@dot.gov, 202-366-4053; Karen Perritt, karen.perritt@dot.gov, 202-366-9066

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

Keywords: Resilience, Environment, Endangered, Wildlife, Habitat
Assistance Type: Grant/Cost-Match
Agency: Department of the Interior, 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.
Award Ceiling: N/A
Authorization: Endangered Species Act, 1973 (as amended 1978, 1982, 1988, and 2004)
Website: https://www.fws.gov/endangered/grants/
Contact Information: Kelly Niland, 703-358-2492 Kelly_Niland@fws.gov

57. Endangered Species Conservation - Recovery Implementation Funds

Keywords: Resilience, Endangered, Environment
Assistance Type: Discretionary Grant/Cooperative Agreement
Agency: Department of the Interior, Fish & Wildlife Service
Purpose: To secure information about endangered or threatened Endangered Species Act-listed species, 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 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 in the United States, and is limited to projects carrying out actions described in a species approved recovery plan, in the implementation schedule of a species approved recovery plan, 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: $99,999
Authorization: Endangered Species Act, 1973 (as amended 1978, 1982, 1988, and 2004)
Website: https://www.federalgrantswire.com/endangered-species-conservation---recovery-implementation-funds.html#.XcHmQfVKhPY
Contact Information: Dan Elbert, daniel_elbert@fws.gov, 703-358-2150

58. Marine Debris Removal Grant

Keywords: Environment, Natural Resources, Science, Research
Assistance Type: Cooperative Agreement/Competitive Grant
Agency: Department of Commerce, National Oceanic & Atmospheric Administration
Purpose: The NOAA Marine Debris Program provides funding that supports the development and implementation of locally-driven, marine debris prevention, assessment, and removal projects that benefit coastal habitat, waterways, and NOAA trust resources.
Award Ceiling: Total funding available is $2,500,000. Average award ranges from $50,000 to $150,000.
Authorization: Marine Debris Act (33 U.S.C. 1951-1958)
Website: https://www.grants.gov/web/grants/view-opportunity.html?oppId=308384 and https://www.fisheries.noaa.gov/grant/fy19-marine-debris-removal
Contact Information: Tom Barry, tom.barry@noaa.gov, 240-533-0425

59. Maritime Environmental and Technical Assistance (META) Program

Keywords: Environment, Research, Maritime
Assistance Type: Cooperative Agreement, Technical Assistance
Agency: 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

60. Maritime Heritage Grants

Keywords: Education, Maritime, History
Assistance Type: Grant/Cost-Match
Agency: Department of the Interior, National Park Service
Purpose: The National Maritime Heritage Grants Program is established to help State, local, and Tribal governments and private nonprofit organizations preserve and interpret their maritime heritage. It is a national, competitive matching grants program which provides funds for Maritime Heritage Education Projects and Maritime Heritage Preservation Projects designed to reach a broad audience and enhance public awareness and appreciation for the maritime heritage of the United States.
Award Ceiling: $200,000
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: Kelly Spradley-Kurowski, Historian and Grants Manager; 202-354-2266; kelly_spradley-kurowski@nps.gov

61. National Coastal Wetlands Conservation Grant Program

Keywords: Environment, Coast, Wetland, Conservation, Ecosystem
Assistance Type: Grant/Cost-Match
Agency: Department of the Interior, U.S. Fish & Wildlife Service
Purpose: To support the long-term conservation of coastal wetland ecosystems. The program annually provides project grants of up to $1 million to 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
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: Division of Fish and Wildlife Management and Habitat Restoration, Sally Valdes-Cogliano, sally_valdescogliano@fws.gov, (703) 358–2201; Division of Federal Aid, Gary Reinitz, gary_reinitz@fws.gov, (703) 358–2159

62. Pollution Prevention Grant Programs

Keywords: Environment, Pollution
Assistance Type: Grant/Cooperative Agreement with Cost-Match
Agency: Environmental Protection Agency
Purpose: To provide businesses with technical advice, on-site technical assistance, classroom training, professional certification, etc. Projects should highlight: 1) the business recipient of the technical assistance/training activity; 2) the type of technical assistance and/or training activity; 3) how, when and where the technical assistance/training will be provided; and 4) how the technical assistance/training will be assessed to measure environmental performance, and environmental and human health concerns.
Award Ceiling: $500,000 for two-year funding period ($250,000 per year)
Authorization: Pollution Prevention Act, 1990
Website: https://www.epa.gov/p2/grant-programs-pollution-prevention#p2grant
Contact Information: Michele Amhaz, amhaz.michele@epa.gov, 202-564-8857

63. Source Reduction Assistance Grant Program (SRA)

Keywords: Environment, Pollution
Assistance Type: Grant/Cooperative Agreement with Cost-Match
Agency: Environmental Protection Agency
Purpose: To support pollution prevention/source reduction and/or resource conservation projects that reduce or eliminate pollution at the source.
Award Ceiling: $260,000 (over a two-year funding period)
Authorization: Clean Air; Clean Water Act, Federal Insecticide, Fungicide, and Rodenticide; Safe Drinking Water; Solid Waste Disposal; & Toxic Substances Control
Website: https://www.epa.gbuildov/p2/grant-programs-pollution-prevention#sra
Contact Information: Michele Amhaz, amhaz.michele@epa.gov, 202-564-8857

64. Targeted Airshed Grant Program

Keywords: Environment, Pollution
Assistance Type: Competitive Grant
Agency: 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 (O^3) 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 PM2.5 ambient air concentrations.
Award Ceiling: Total funding available is $4,000,000
Authorization: 2017 Appropriations Act
Website: https://www.epa.gov/grants/2018-targeted-airshed-grant-program-closed-announcement-fy-2019
Contact Information: Tim Roberts, roberts.timothy-p@epa.gov, 202-564-6004

65. Wetland Program Development Grants

Keywords: Environment, Wetland
Assistance Type: Grant/Cost-Match
Agency: Environmental Protection Agency
Purpose: To promote 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: $300,000
Authorization: Clean Water Act
Website: http://water.epa.gov/grants_funding/wetlands/grantguidelines/index.cfm
https://www.epa.gov/wetlands/fy-2018-and-fy-2019-national-wetland-program-development-grant-request-proposals
Contact Information: https://www.epa.gov/wetlands/forms/contact-us-about-wetlands

(G) Research and Development

66. Biological Oceanography

Keywords: Environment, Biology, Ocean, Great Lakes
Assistance Type: Discretionary Grant
Agency: National Science Foundation
Purpose: The Biological Oceanography Program supports fundamental research in biological oceanography and marine ecology (populations to the ecosystems) broadly defined: relationships among aquatic organisms and their interactions with the environments of the oceans or Great Lakes. Projects submitted to the program are often interdisciplinary efforts that may include participation by other OCE Programs.
Award Ceiling: N/A
Authorization: N/A
Website: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=11696
Contact Information: Michael Sieracki, msierack@nsf.gov, (703) 292-7585. Additional contact information listed on the website above.

67. Chemical Oceanography

Keywords: Environment, Ocean, Marine, Science, Research
Assistance Type: Discretionary Grant
Agency: 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.

68. Cyber-Physical Systems (CPS)

Keywords: Cyber Infrastructure, Security, Resilience
Assistance Type: Discretionary Grant
Agency: National Science Foundation
Purpose: Cyber-physical systems (CPS) 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; Radhakisan Baheti, rbaheti@nsf.gov, 703-292-8339

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

Keywords: Environment, Ocean Observing, Monitoring, Coast
Assistance Type: Grant (No Match)
Agency: Department of Commerce, National Oceanic & Atmospheric Administration
Purpose: NOAA is requesting proposals for a multi-year effort to transition prototype ocean, coastal, and Great Lakes observing, product development, and data management technologies to operations in a stepped, parallel, and scalable process that includes stakeholder engagement from industry, government, academia, and others invested in the monitoring and assessment of the nation's oceans and coastal regions. Operational mode is defined as the actual application of the technology in its final form and under mission requirements.
Award Ceiling: N/A
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: Dave Easter, US IOOS Program, dave.easter@noaa.gov, 240-533-9453

70. NOAA Broad Agency Announcement (BAA)

Keywords: Environment, Research, Education, Outreach
Assistance Type: Cooperative Agreement/Grant
Agency: 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 Broad Agency Announcement (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: https://coast.noaa.gov/funding/_pdf/NOAA-BAA-NOAA-NFA-NFAPO-2016-2004791-posted-12.30.2015-closing-09.30.2017.pdf
https://www.fisheries.noaa.gov/grant/fy-2018-2020-broad-agency-announcement
Contact Information: Lamar Dwayne Revis, 301-628-1308 x.1325

71. Ocean Drilling (OD)

Keywords: Energy, Science, Marine, Ocean
Assistance Type: Discretionary Grant
Agency: National Science Foundation

Purpose: To advance basic research in the marine geosciences and is supported by the National Science Foundation (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

72. Ocean Technology & Interdisciplinary Coordination (OTIC) Program

Keywords: Environment, Technology, Ocean, Marine, Science, Research
Assistance Type: Discretionary Grant
Agency: 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

73. Oceanographic Facilities & Equipment Support

Keywords: Environment, Ocean, Science
Assistance Type: Discretionary Grant
Agency: National Science Foundation
Purpose: To provide properly managed and equipped facilities in support of federally-funded oceanographic research primarily funded by NSF.
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 F. Allan, jallan@nsf.gov, (703) 292-8144. Additional contact information listed on above website.

74. Operations Engineering (OE) Program

Keywords: Research, Science, Modeling, Data, Environment
Assistance Type: Grant
Agency: National Science Foundation
Purpose: The Operations Engineering (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

75. Physical Oceanography

Keywords: Environment, Ocean, Marine
Assistance Type: Discretionary Grant
Agency: 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

76. Advanced Technology Solutions for Unconventional Oil and Gas Development

Keywords: Energy, Technology
Assistance Type: Cooperative Agreement
Agency: Department of Energy, National Energy Technology Laboratory (NETL)
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 in order 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 Depart 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

77. Coastal & Estuarine Land Conservation Program (CELCP)

Keywords: Environment, Great Lakes, Conservation, Coastal, Estuarine
Assistance Type: Discretionary Grant
Agency: 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 Coastal and Estuarine Land Conservation Program (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/ or https://coast.noaa.gov/funding/_pdf/NOAA-NOS-OCM-2017-2004932-posted-07.27.2016.pdf
Contact Information: Elaine Vaudreuil, CELCP Program Manager, Elaine.Vaudreuil@noaa.gov, 240-533-0821 or Elizabeth Mountz, Elizabeth.Mountz@noaa.gov, 240-533-0819

78. Coastal Program - Great Lakes Restoration Initiative

Keywords: Environment, Coast, Great Lakes, Habitat, National Resources
Assistance Type: Discretionary/Cooperative Agreement
Agency: Department of the Interior, 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

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

Keywords: Environment, Coast, Conservation
Assistance Type: Discretionary Grant
Agency: 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

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

Keywords: Resilience, Infrastructure
Assistance Type: N/A
Agency: National Science Foundation
Purpose: To (1) foster an interdisciplinary research community of engineers and social, behavioral, and economic (SBE) 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 ICIs as processes and services that may have complementary and/or substitutional roles with each other; (3) create innovations in ICIs 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.

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

Category: National Science Foundation
Assistance Type: Grant (No Match)
Keywords: Resilience
Purpose: To advance knowledge for new concepts for multi-hazard resilient and sustainable SFSE building systems using decision frameworks for selection among alternative building system designs.
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

82. Disaster Relief Appropriations

Keywords: Environment, Resilience, Ocean, Maritime
Assistance Type: Cooperative Agreement, Project Grants

Agency: Department of Commerce, National Oceanic & Atmospheric Administration
Purpose: 1. Protect, Restore, and Manage the Use of Coastal and Ocean Resources through an Ecosystem Approach to Management; 2. Understand Climate Variability and Change to Enhance Society's Ability to Plan and Respond; 3. Serve Society's Needs for Weather and Water Information.
Award Ceiling: N/A
Authorization: Disaster Relief Appropriations Act of 2013, Public Law 113-2
Website: https://coast.noaa.gov/states/stories/superstorm-sandy-noaa-disaster-relief-appropriations.html
Contact Information: Jane Piercy, jane.piercy@noaa.gov, 301-713-3050 x.161

83. Energy for Sustainability

Keywords: Energy, Transportation, Resilience
Assistance Type: Discretionary Grant
Agency: 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

84. Engineering for Natural Hazards (ENH)

Keywords: Infrastructure, Resilience, Natural Hazards
Assistance Type: Discretionary Grant
Agency: 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

85. Environmental Sustainability

Keywords: Environment, Resilience
Assistance Type: Discretionary Grant

Agency: 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

86. Fire Prevention & Safety Grant Program

Keywords: Resilience, Fire Prevention, Safety, Firefighters
Assistance Type: Grant/Cost-Match
Agency: 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

87. Geotechnical Engineering & Materials (GEM)

Keywords: Resilience, Research
Assistance Type: Discretionary Grant
Agency: 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. Fragaszy, rfragasz@nsf.gov, 703-292-7011

88. Marine & Hydrokinetic Systems Performance Advancement II

Category: Department of Energy
Assistance Type: Cooperative Agreements/Cost Share requirements
Keywords: Energy/Maritime

Purpose: To spur innovation of next-generation water power 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.
Website: https://www.energy.gov/eere/water/foa-marine-and-hydrokinetic-systems-performance-advancement-ii-spa-ii-component-metric
Authorization: U.S. DOE/Office of Energy Efficiency and Renewable Energy

89. 2015 Special Projects Competitive Funding Announcement – Conferences & Workshops

Category: Department of Commerce, National Oceanic & Atmospheric Administration
Assistance Type: Grant/Cost-Match
Keywords: Education/Maritime
Purpose: To support proposals for conferences or workshops addressing regional or national issues and with regional or national participation.
Authorization: N/A
Website: https://seagrant.noaa.gov/Funding
Contact Information: oar.hq.sg.competitions@noaa.gov

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

Keywords: Environment, Infrastructure, Water
Assistance Type: Grant/Cost-Match
Agency: 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

91. Natural Hazards Engineering Research Infrastructure (NHERI)

Keywords: Resilience, Natural Hazards, Infrastructure
Assistance Type: Discretionary Grant
Agency: 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

92. Next-Generation Marine Energy Systems

Keywords: Energy/Maritime
Assistance Type: Grant
Agency: 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
Website: https://www.energy.gov/eere/articles/energy-department-awards-105-million-next-generation-marine-energy-systems
Authorization: U.S. DOE/Office of Energy Efficiency and Renewable Energy

93. Off-Hours Freight Delivery

Keywords: Transportation, Infrastructure, Freight Planning
Assistance Type: Cooperative Agreements
Agency: 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

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

Keywords: Resilience, Hazards, Extreme Events
Assistance Type: Discretionary Grant
Agency: 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.

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

Keywords: Transportation, Freight, Roads, Rail, Ports
Assistance Type: Increased Federal Share
Agency: 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, FHWA Office of Freight Management and Operations, Tamiko.Burnell@dot.gov, 202-366-1200

96. Securing the Cities Program Archives from DHS

Keywords: Security, Training
Assistance Type: Discretionary Grant
Agency: 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, Grants Specialist, janet.bailey@hq.dhs.gov, 202-447-0362; Christopher Magrino, Program Officer, christopher.magrino@hq.dhs.gov, 202-254-7443

97. Structural and Architectural Engineering and Materials (SAEM)

Keywords: Infrastructure, Environment, Resilience, Research
Assistance Type: Discretionary Grant
Agency: 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 of 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. See also Authorized Applicant (AOR) role

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. Also see 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 § 200.343 Closeout of the 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 into 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 in order 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 http://fedgov.dnb.com/webform).

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 his or her 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 depend 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, other agreement for assistance covered in paragraph (b) of § 200.40 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 facilities (GOCOs). (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 (except assistance listed in paragraph (b) of this section).

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.

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 formulas 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 as a result 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 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 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, 6304:

a) Is used to enter into 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 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 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), 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. 450b(e)). See annually published Bureau of Indian Affairs list of Indian Entities Recognized and Eligible to Receive Services.

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 § 200.69 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 #33
Advanced Transportation and Congestion Management Technologies Deployment Program…Program #1
Better Utilizing Investments to Leverage Development (BUILD)…… Program #2
Biological Oceanography …… Program #66
Business Energy Investment Tax Credit (ITC) ……Program #34
Capital Construction Fund Program ……Program #3
Chemical Oceanography ……Program #67
Civil Infrastructure Systems.…… Program #37
Clean Diesel Funding Assistance Program ……Program #50
Clean Diesel Tribal Grants…… Program #51
Clean Vessel Act Grant…… Program #52
Coastal Impact Assistance Program (CIAP)…… Program #53
Coastal Program …… Program #54
Coastal Resilience Grants Program …… Program #38
Congestion Mitigation & Air Quality Improvement (CMAQ) Program ……Program #55
Construction Reserve Fund……Program #4
Continuing Authorities Program (CAP)……Program #39
Cooperative Endangered Species Conservation Fund/ Section 6 Grants (CESCF)……Program#56
Cyber-Physical Systems (CPS) …… Program #68
Department of Energy Unsolicited Proposal Office …… Program #35
Disaster Loan Assistance …… Program #40
Economic Development Assistance Programs …… Program #28
Emergency Relief Program …… Program #41
Endangered Species Conservation - Recovery Implementation Funds……Program #57
ERDC Broad Agency Announcement (BAA)……Program #5
Farm Storage Facility Loan Program …… Program #6
Federal Ship Financing Program (Title XI) …… Program #7
Ferry Boat Program…… Program #8
Flood Mitigation Assistance (FMA) Grant Program……Program #42
General Small Business Loans (7A) ……Program #29
Grant Anticipation Revenue Vehicles (GARVEEs) …… Program #9
Homeland Security Grant Program (HSGP) …… Program #46
Humans, Disasters, and the Built Environment (HDBE)……Program #43
Infrastructure for Rebuilding America (INFRA) Grants …… Program #10
Integrated Ocean Observing System (IOOS) Ocean Technology Transition (OTT) Project ….Program #69
Marine Debris Removal Grant……Program #58
Maritime Environmental and Technical Assistance (META) Program …… Program #59
Maritime Heritage Grants …… Program #60
Marine Highway Grants …… Program #11
Metropolitan Planning……Program #12
National Coastal Wetlands Conservation Grant Program……Program #61
National Highway Performance Program …… Program #13
NOAA Broad Agency Announcement (BAA) ……Program #70
Ocean Drilling (OD) ……Program #71
Ocean Freight Reimbursement (OFR) Program ……Program #30
Ocean Technology & Interdisciplinary Coordination (OTIC) Program ……Program #72
Oceanographic Facilities & Equipment Support ……Program #73
Operations Engineering (OE) Program ……Program #74

Passenger Ferry Grant Program ……...Program #14
Physical Oceanography ……...……...Program #75
Planning Program & Local Technical Assistance Program ……...Program #31
Pollution Prevention Grant Programs ……. ..Program #62
Port Infrastructure Development Program……..Program #15
Port Security Grant Program (PSGP) ……Program #47
Ports & Waterways Construction ……...……Program #16
Pre-Disaster Mitigation Grant Program……..Program #44
Private Activity Bonds (PABs) ……...……...Program #17
Railroad Rehabilitation & Improvement Financing (RRIF) …..……...Program #18
Real Estate & Equipment Loans (SBA 504 Loan Program)…….....Program #19
Renewable Electricity Production Tax Credit (PTC) ……Program #36
Section 129 Loans ……...……...Program #20
Secure and Trustworthy Cyberspace (SaTC) ……...Program #48
Small Shipyard Grant Program ……Program #21
Source Reduction Assistance Grant Program (SRA) ……Program #63
State Infrastructure Banks (SIBs) ……. …Program #22
Surface Transportation Block Grant Program ……Program #23
Targeted Air Shed Grant Program ……...……...Program #64
Transit Security Grant Program (TSGP) ……...Program #49
Transportation Alternatives Set-Aside ……....Program #24
Transportation Infrastructure Finance & Innovation Act (TIFIA) ……Program #25
USACE Flood Risk Management Services (FRMS) ……...……..Program #45
USACE Planning Assistance to States ……...…...……Program #26
Water Infrastructure Finance and Innovation Act (WIFIA) ……...……Program #27
Wetland Program Development Grants……..Program #65
Workforce Innovation and Opportunity Act (WIOA) Programs ……...…...Program #32

APPENDIX C: Funding Programs by Agency

Agriculture (U.S. Department of)

- Farm Storage Facility Loan Program

Commerce (U.S. Department of)

- Capital Construction Fund Program
- 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)
- Planning Program & Local Technical Assistance Program

Defense (U.S. Department of)

- Continuing Authorities Program (CAP)
- ERDC Broad Agency Announcement (BAA)
- Ports & Waterways Construction
- USACE Flood Risk Management Services (FRMS)
- USACE Planning Assistance to States

Energy (U.S. Department of)

- Advanced Research Projects Agency-Energy (ARPA-E)
- Business Energy Investment Tax Credit (ITC)
- Renewable Electricity Production Tax Credit (PTC)
- Unsolicited Proposal Office

Environmental Protection Agency

- Clean Diesel Funding Assistance Program
- Clean Diesel Tribal Grants
- Pollution Prevention Grant Programs
- Source Reduction Assistance Grant Program (SRA)
- Targeted Air Shed Grant Program
- Water Infrastructure Finance and Innovation Act (WIFIA)
- Wetland Program Development Grants

Homeland Security (U.S. Department of)

- Flood Mitigation Assistance (FMA) Grant Program
- Homeland Security Grant Program (HSGP)
- Port Security Grant Program (PSGP)
- Pre-Disaster Mitigation Grant Program
- Transit Security Grant Program (TSGP)

Interior (U.S. Department of)

- Clean Vessel Act Grant
- Coastal Impact Assistance Program (CIAP)
- Coastal Program
- 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)
- Workforce Innovation and Opportunity Act (WIOA) Programs

Small Business Administration
- Disaster Loan Assistance
- General Small Business Loans (7A)
- Real Estate & Equipment Loans (SBA 504 Loan Program)

Transportation (U.S. Department of)
- Advanced Transportation and Congestion Management Technologies Deployment Program
- Better Utilizing Investments to Leverage Development (BUILD)
- Capital Construction Fund Program
- Congestion Mitigation & Air Quality Improvement (CMAQ) Program
- Construction Reserve Fund
- Emergency Relief Program
- Federal Ship Financing Program (Title XI)
- Ferry Boat Program
- Grant Anticipation Revenue Vehicles (GARVEEs)
- Infrastructure for Rebuilding America (INFRA) Grants
- Marine Highway Grants
- Maritime Environmental and Technical Assistance (META) Program
- Metropolitan Planning
- National Highway Performance Program
- Passenger Ferry Grant Program
- Port Infrastructure Development Program
- Private Activity Bonds (PABs)
- Railroad Rehabilitation & Improvement Financing (RRIF)
- Section 129 Loans
- Small Shipyard Grant Program
- State Infrastructure Banks (SIBs)
- Surface Transportation Block Grant Program
- Transportation Alternatives Set-Aside
- Transportation Infrastructure Finance & Innovation Act (TIFIA)

National Science Foundation
- Biological Oceanography
- Chemical Oceanography
- Civil Infrastructure Systems
- Cyber-Physical Systems (CPS)
- Humans, Disasters, and the Built Environment (HDBE)

- Ocean Drilling (OD)
- Ocean Technology & Interdisciplinary Coordination (OTIC) Program
- Oceanographic Facilities & Equipment Support
- Operations Engineering (OE) Program
- Physical Oceanography
- Secure and Trustworthy Cyberspace (SaTC)

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) *Grants, Technical Assistance*
- Advanced Transportation and Congestion Management Technologies Deployment Program *Grants*
- Better Utilizing Investments to Leverage Development (BUILD) *Discretionary Grant*
- Biological Oceanography *Discretionary Grant*
- Chemical Oceanography *Discretionary Grant*
- Civil Infrastructure Systems *Discretionary Grant*
- Clean Diesel Funding Assistance Program *Discretionary Grant*
- Clean Diesel Tribal Grants *Competitive Grant*
- Clean Vessel Act Grant *Discretionary Grant*
- Coastal Impact Assistance Program (CIAP) *Formula Grant*
- Coastal Program *Cooperative Agreement*
- Coastal Resilience Grants Program *Grant*
- Congestion Mitigation & Air Quality Improvement (CMAQ) Program *Formula Grant*
- Cooperative Endangered Species Conservation Fund/ Section 6 Grants (CESCF) *Grant/Cost-Match*
- Cyber-Physical Systems (CPS) *Discretionary Grant*
- Economic Development Assistance Programs *Grant/Cooperative Agreement*
- Emergency Relief Program *Grant*
- Endangered Species Conservation - Recovery Implementation Funds *Discretionary Grant/ Cooperative Agreement*
- ERDC Broad Agency Announcement (BAA) *Discretionary Grant*
- Ferry Boat Program *Formula Grant, using BTS National Census of Ferry Operators*
- Flood Mitigation Assistance (FMA) Grant Program *Grant*
- Homeland Security Grant Program (HSGP) *Formula Grant*
- Humans, Disasters, and the Built Environment (HBDE) *Grant*
- Infrastructure for Rebuilding America (INFRA) Grants *Discretionary Grant*
- Integrated Ocean Observing System (IOOS) Ocean Technology Transition (OTT) Project *Grant (No Match)*
- Marine Debris Removal Grant *Competitive Grant/ Cooperative Agreement*
- Marine Highway Grants *Project Grants*
- Maritime Heritage Grants *Grant/Cost-Match*
- Metropolitan Planning *Formula Grant*
- National Coastal Wetlands Conservation Grant Program *Grant*
- National Highway Performance Program *Formula Grant*
- NOAA Broad Agency Announcement (BAA) *Cooperative Agreement/Grant*
- Ocean Drilling (OD) *Discretionary Grant*
- Ocean Freight Reimbursement (OFR) Program *Discretionary Grant*
- Ocean Technology & Interdisciplinary Coordination (OTIC) Program *Discretionary Grant*
- Oceanographic Facilities & Equipment Supportt *Discretionary Grant*
- Operations Engineering (OE) Program *Grant*
- Passenger Ferry Grant Program *Discretionary Grant*
- Physical Oceanography *Discretionary Grant*
- Planning Program & Local Technical Assistance Program *Grant*
- Pollution Prevention Grant Programs *Grant/Cooperative Agreement with Cost-Match*

- Port Infrastructure Development Program *Competitive Grant*
- Port Security Grant Program (PSGP) *Grant/Cost-Match*
- Pre-Disaster Mitigation Grant Program *Grant/ Cost-Match*
- Secure and Trustworthy Cyberspace (SaTC) *Grant*
- Small Shipyard Grant Program *Discretionary Grant*
- Source Reduction Assistance Grant Program (SRA) *Grant/Cooperative Agreement with Cost-Match*
- Surface Transportation Block Grant Program *Formula Grant*
- Targeted Air Shed Grant Program *Competitive Grant*
- Transit Security Grant Program (TSGP) *Competitive Grant*
- Transportation Alternatives Set-Aside *Formula Grant*
- Wetland Program Development Grants *Grant/ Cost-Match*
- Workforce Innovation and Opportunity Act (WIOA) Programs *Formula Grant*

Loans

- 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 Loans/Loan Guarantees*
- Real Estate & Equipment Loans (SBA 504 Loan Program) *Loan*
- Transportation Infrastructure Finance & Assistance Act (TIFIA) *Secured Loans/Credit Lines/Loan Guarantees*
- Water Infrastructure Finance and Innovation Act (WIFIA) *Loan*

Other

- Business Energy Investment Tax Credit (ITC) *Financial Incentive/Corporate Tax Credit*
- Capital Construction Fund Program *Tax Deferral*
- Construction Reserve Fund, *Tax Deferral*
- Continuing Authorities Program (CAP) *Project Development/ Cost Share*
- Department of Energy Unsolicited Proposal Office *Financial Incentive, Technical Assistance*
- Grant Anticipation Revenue Vehicles (GARVEEs) *Bonds Repaid, all or in part, by future Federal-aid funds*
- Maritime Environmental and Technical Assistance (META) Program *Cooperative Agreement/ Technical Assistance*
- Ports & Waterways Construction *Direct Congressional appropriation w/local match*
- Private Activity Bonds (PABs) *Tax Exempt Bond Issuance*
- Renewable Electricity Production Tax Credit (PTC) *Financial Incentive/Corporate Tax Credit*
- Section 129 Loans *Loan Leverage Tool*
- State Infrastructure Banks (SIBs) *Loan Leverage Tool*
- USACE Flood Risk Management Services (FRMS) *Technical Assistance*
- USACE Planning Assistance to States *Technical Assistance*