

**Workshop at the 12th U.S. Symposium on Harmful Algae
Tuesday, October 29, 2024**

Funding Program/Website	Program Goal	Type of Work Funded	Frequency	Eligibility (*restrictions may apply)							Contact
				Rolling, Periodic, Annual, One-time	Federal	State	Local	Tribal	Private	Non-profit	
Environmental Protection Agency (EPA)											
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Clean Water Act Section 319 Nonpoint Source Program	The 1987 amendments to the Clean Water Act (CWA) established the Section 319 Nonpoint Source Management Program. Under Section 319, states, territories and tribes receive grant money that supports a wide variety of activities including technical assistance, financial assistance, education, training, technology transfer, demonstration projects and monitoring to assess the success of specific nonpoint source implementation projects.	Nonpoint Source Programs	Annual		X	X	X				Cyd Curtis, Curtis.Cynthia@epa.gov
Clean Water State Revolving Fund	The CWSRF program is a federal-state partnership that provides low-cost financing to communities for a wide range of water quality infrastructure projects, including municipal wastewater facilities, nonpoint source pollution control, decentralized wastewater treatment systems, stormwater runoff mitigation, green infrastructure, estuary protection, and water reuse. Learn more about BIL funds allocated to address emerging contaminants: https://www.epa.gov/cwsrf/clean-water-state-revolving-fund-emerging-contaminants .	Various	Various								https://www.epa.gov/cwsrf/forms/contact-us-about-clean-water-state-revolving-fund-cwsrf
Drinking Water State Revolving Fund	The Drinking Water State Revolving Loan Fund (DWSRF) was established by the 1996 amendments to the Safe Drinking Water Act (SDWA). The DWSRF is a financial assistance program to help water systems and states to achieve the health protection objectives of the SDWA. (See 42 U.S.C. §300j-12.) The program is a powerful partnership between EPA and the states. See eligibility handbook to learn more: https://www.epa.gov/dwsrf/dwsrf-eligibility-handbook .	Various	Various								https://www.epa.gov/dwsrf/forms/contact-us-about-drinking-water-state-revolving-fund
Clean Water Act Section 106 Water Pollution Control Grants	Under section 106 of the Clean Water Act (33 U.S. Code §1256), EPA provides assistance to states (including territories and the District of Columbia), interstate agencies, and eligible tribes to establish and implement ongoing water pollution control programs. Learn more about eligibility here: https://www.epa.gov/water-pollution-control-section-106-grants/about-water-pollution-control-section-106-grant-program#eligible .	Various	Various								https://www.epa.gov/water-pollution-control-section-106-grants/forms/contact-us-about-water-pollution-control-section
Water Infrastructure and Resiliency Finance Center	The Water Finance Center provides financing information to help local decision makers make informed decisions for drinking water, wastewater, and stormwater infrastructure to protect human health and the environment. Visit the Water Finance Clearinghouse, a web based portal that can help communities locate information and resources to inform on decisions about drinking water, wastewater, and stormwater infrastructure needs: https://clearinghouse.epa.gov/ords/wfc/f?p=wfc:12 .	Various	Various								https://www.epa.gov/waterfinancecenter/forms/contact-us-about-water-infrastructure-and-resiliency-finance-center
Great Lakes Restoration Initiative	The Great Lakes Restoration Initiative (GLRI) is the largest investment in the Great Lakes.	Various	Periodic								https://www.epa.gov/great-lakes-funding/forms/contact-us-about-great-lakes-funding
Gulf of Mexico Division: Farmer to Farmer 2024 Funding Opportunity	Funding will support farmer-led or farm focused organizations to improve water quality, habitat, resilience, and environmental education through the demonstration of innovative practices on working lands. Funding amount: Approximately \$20 million will be available for 10 to 20 projects, a maximum of \$1,000,000 - \$2,000,000 per project.	Projects within the Gulf of Mexico Watershed	Periodic		X	X	X	X	X	X	https://www.epa.gov/gulfofmexico/forms/contact-us-about-epas-work-gulf-mexico
Funding Integration Tool for Source Water	FITS is a one-stop-shop tool that explains how users can integrate various federal funding sources to support activities that protect sources of drinking water.										https://www.epa.gov/sourcewaterprotection/forms/contact-us-about-source-water-protection
National Institutes of Health (NIH) PRESENTATION SLIDES											
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National Institute of Environmental Health Sciences	NIEHS funds a substantial portfolio of research in the field of environmental health sciences conducted by investigators in many disciplines from various organizations. These research activities span the range from basic mechanistic research to clinical and epidemiologic studies using human subjects. NIEHS-supported investigators are currently determining how environmental agents (including HAB toxins) cause or exacerbate a variety of human diseases. Grant mechanisms vary, depending on scope and timeframe, and opportunities include career development awards and fellowships.	Research	Periodic	X	X	X	X	X	X	X	Anika Dzierlenga, anika.dzierlenga@nih.gov

National Oceanic and Atmospheric Administration (NOAA)

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NCCOS Ecology & Oceanography of HABs (ECO HAB)	ECO HAB funds research to understand the causes and impacts of HABs and their toxins, which is fundamental to successful management and mitigation.	Research	Periodic, typically every 2-3 years	X	X	X	X	X	X	X	Maggie Broadwater, maggie.broadwater@noaa.gov
NCCOS Monitoring & Event Response for HABs (MERHAB)	MERHAB builds capacity along our coasts for enhanced HAB monitoring and response. This helps NOAA and state partners identify when beaches, shellfisheries, and marine animals are at risk from harmful algae, and to make informed decisions that protect public health and safeguard our coastal economies.	Research	Periodic, typically every 2-3 years	X	X	X	X	X	X	X	Marc Suddleson, marc.suddleson@noaa.gov
NCCOS Prevention, Control & Mitigation of HABs (PCM HAB)	PCM HAB funds research to move promising technologies for preventing, controlling, or mitigating HABs and their impacts through development, to demonstration, and, finally application, culminating in wide spread use in the field by end-users.	Research	Periodic, typically every 2-3 years	X	X	X	X	X	X	X	Felix Martinez, felix.martinez@noaa.gov
NCCOS Social, Cultural and Economic Assessment of HABs (SEAHAB)	SEAHAB funds research to increase our understanding of the social, cultural and economic impacts of HABs at both the individual and community levels to facilitate the development and implementation of strategies that prevent or mitigate such impacts.	Research	Periodic, typically every 2-3 years	X	X	X	X	X	X	X	Brittany King, brittany.king@noaa.gov
NCCOS HAB Event Response (HABER)	HABER provides immediate support for response planning and management, and advancing the understanding of HABs as they occur	Event Response	Rolling	X*	X	X	X	X	X	X	Sarah Pease, nccos.hab.event.response@noaa.gov
IOOS Ocean Technology Transition (OTT)	The IOOS Ocean Technology Transition program sponsors the transition of emerging marine observing technologies, for which there is an existing operational requirement and a demonstrated commitment to integration and use by the ocean observing community, to operational mode.	Technology Transition	Every 3 years	X	X	X	X	X	X	X	Tiffany C. Vance, tiffany.c.vance@noaa.gov
IOOS Marine Biodiversity Observing Network (MBON)	The vision of US MBON has been to address the need for systematic collection and sharing of marine life information in ways that ensure the information is available for practical application in decision making from local to national levels, taking direct measurements of life to document status and trends in the face of human- and climate-induced change using a range of technologies and approaches.	Collection and Sharing of Data	Typically every 5 years	X	X	X	X	X	X	X	Gabrielle Canonico, gabrielle.canonico@noaa.gov
IOOS Coastal and Ocean Modeling Testbed (COMT)	The mission of the Coastal and Ocean Modeling Testbed is targeted research and development to accelerate the transition of scientific and technical advances from the coastal ocean modeling research community to improved operational ocean products and services.	Modeling	Every 3-5 years	X	X	X	X	X	X	X	Tracy Fanara, tracy.fanara@noaa.gov
National Sea Grant Opportunities	Sea Grant provides a variety of funding opportunities based on its work in four focus areas: Healthy Coastal Ecosystems, Sustainable Fisheries and Aquaculture, Resilient Coastal Communities and Economies, and Environmental Literacy and Workforce Development. Funding opportunities include National Strategic Investments, Special Projects, focused opportunities through each of the 34 Sea Grant programs, and more.	Research, Education, Engagement, Event Response, Management	Periodic, Annual, One-time	X	X	X	X	X	X	X	
National Sea Grant Student Opportunities Team	Supporting students on their path to marine and coastal careers: Career development opportunities, information on scholarships, internships, and fellowships, and more.	Research, Education, Engagement	Periodic, Annual, One-time	X	X	X	X	X	X	X	

US Army Corps of Engineers (USACE)

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HAB Research and Development Initiative	Develop and deliver scalable HAB prevention, detection, and management technologies that reduce the frequency and severity of freshwater HAB impacts to USACE and the nation.	Research	Congressional appropriations-based	X	X	X	X	X	X	X	Mandy Michalsen (Mandy.M.Michalsen@usace.army.mil)
HAB Technology Demonstration Program	Conduct field demonstrations of scalable HAB prevention, detection, and management technologies; not research.	Demonstration	Congressional appropriations-based		X	X	X	X	X	X	Mandy Michalsen (Mandy.M.Michalsen@usace.army.mil)

US Geological Survey (USGS)

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[The United States Geological Survey Water Resources Research Act Program \(usgs.gov\)](#)

The Water Resources Research Act Program is a Federal-State partnership which: 1) Plans, facilitates, and conducts research to aid in the resolution of State and regional water problems; 2) Promotes technology transfer and the dissemination and application of research results; 3) Provides for the training of scientists and engineers through their participation in research; and 4) Provides for competitive grants to be awarded under the Water Resources Research Act

Research

Annual

X Christian Schmidt (cgschmidt@usgs.gov)

[Harmful Algal Bloom \(HAB\) Cooperative Matching Funds Projects | U.S. Geological Survey \(usgs.gov\)](#)

In Fiscal Years 2019 through 2023, Congress provided the USGS National Water Quality Program (NWQP) with additional resources to assess HABs. The NWQP has funded 55 projects in 19 States and Puerto Rico from 2019 through 2023 that advance real-time monitoring, remote sensing, and use of molecular techniques to identify and predict the occurrence of HABs and the toxins they produce. These new approaches will provide information that can act as an “early warning” of HABs, assist water-treatment plant operators in decision making, and build our knowledge of the cyanobacterial communities that cause HABs and the cyanotoxins produced. All projects are conducted jointly with state, regional, tribal, and (or) local partners.

Research, Monitoring

Annual

X X X

Joel Galloway (jgallowa@usgs.gov)

[Youth and Education in Science | U.S. Geological Survey \(usgs.gov\)](#)

Engaging the next generation of scientists is an integral component of USGS science. The Youth and Education in Science (YES) office coordinates a variety of programs that target the spectrum of learners from early childhood through post-doctoral fellowships.

Student Internships and Fellowships

Rolling

X Eleanor Snow, esnow@usgs.gov

Other Funding Programs

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[USHABCTI](#)

USHABCTI funds laboratory research to help develop novel HAB control technologies and identify if they are 1) feasible, 2) scalable, 3) environmentally acceptable, and 4) cost-effective.

Research

Annual

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Taylor Armstrong, ushabcti@umces.edu