



NOAA's Small Business Innovation Research (SBIR) Program

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U.S. Department of Commerce

<https://www.noaa.gov/>

<https://techpartnerships.noaa.gov/SBIR>



Mission:

To understand and predict changes in climate, weather, oceans and coasts.

To conserve and manage coastal and marine ecosystems and resources.

To share that knowledge and information with others.





NOAA Mission Areas



Weather >



Climate >



Oceans & Coasts >



Fisheries >



Satellites >



Research >



Marine & Aviation >



Charting >



Sanctuaries >



Small Business Innovation Research

This \$4B cross-agency Federal Government program is a competitive program that encourages American small businesses to engage with us in developing innovative products/services that have potential for commercialization while supporting our agency mission needs.



SBIR Program Goals

- Stimulate technological **innovation**.
- Meet **federal research and development needs**.
- Foster and encourage participation in innovation and entrepreneurship by **socially and economically disadvantaged persons**.
- Increase private-sector **commercialization** of innovations derived from federal research and development funding.



SBIR Program Eligibility

- Company must be for-profit, U.S.-owned and operated, and under 500 employees
- Work must be done in the U.S.
- Principal Investigator must be employed full-time by the company
- Focus is on performing cutting-edge R&D....not purchasing equipment, not commercializing a technology already developed or one with low risk needing only capital



https://www.sbir.gov/sites/default/files/elig_size_compliance_guide.pdf





NOAA's SBIR Program

- Funds development of innovative products and services that relate to and benefit NOAA's mission
- Commercial potential is required
- Grants are the funding mechanism...~\$10M annual budget
- Commercialization assistance provided to small businesses



Previous NOAA SBIR Funding Recipients:



L3HARRIS



PEMDAS
TECHNOLOGIES & INNOVATIONS



SYNTHETIK
applied technologies



Actinix



SBIR · STTR
America's Seed Fund

<https://www.sbir.gov/news/success-stories>





Previous 2019 Funded SBIR Topic Areas

- Aquaculture
- Recreational and Commercial Fisheries
- Weather Service Improvement & Evolution
- Next Generation NOAA Observing Platforms
- Next Generation Observation & Modelling Systems



Find all of our past requests for proposals and all our funded projects with abstracts on our SBIR web site





2020 NOAA Science & Technology Research Focus Areas

Unmanned Systems (UxS)

There's a lot of critical information in places that are too remote or too dangerous to send humans. Enter UxS: Aerial, terrestrial, or marine vehicles that can execute data collection missions without a human presence aboard to monitor endangered species or improve hurricane tracking.

1

Artificial Intelligence (AI)

We're training computers to detect and identify patterns from huge amounts of data. AI refers to those techniques in machine learning and deep learning that can help us automate analysis of large datasets for use in stock assessments and recognize extreme weather formation while freeing humans to do higher value work.

2

'Omics

We're unlocking secrets held in the genes of living things in marine environments. This is 'omics, a suite of revolutionary methods used to analyze materials, such as DNA, RNA, or proteins, to keep our water supply and seafood safe, and to make corals more stress-resilient.

3

Cloud Computing

We collect and use a formidable amount of data daily to monitor and model complex Earth systems. The cloud provides more of the safe and reliable storage and computing we need and is also scalable and on-demand with minimal management effort.

4



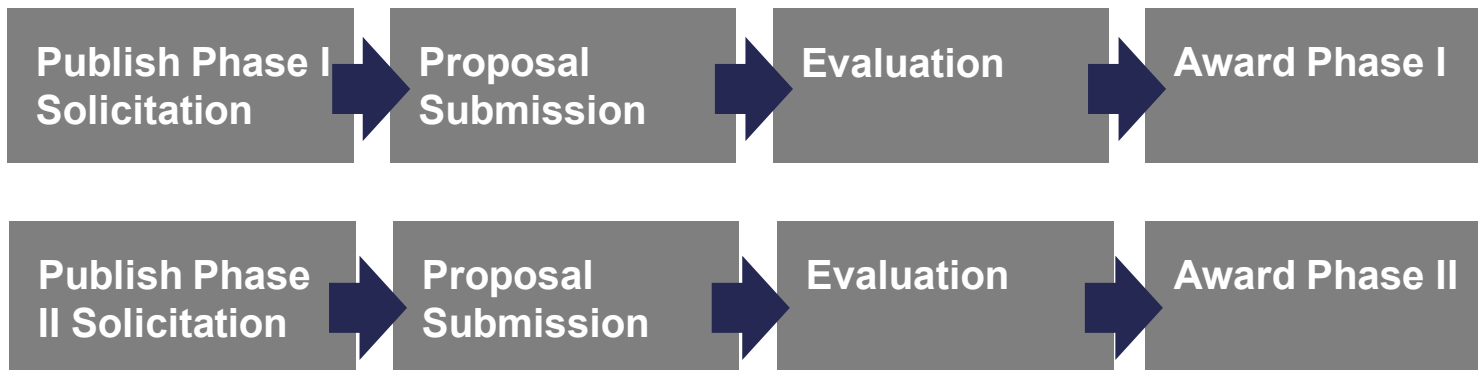
<https://nrc.noaa.gov/NOAA-Science-Technology-Focus-Areas>



NOAA's SBIR 3-Phase Competitive Grant Process



Annual Solicitation-to-Award Process



Next NOAA SBIR Phase I Schedule



* Phase II follows a different staggered annual schedule



NOAA's SBIR Commercialization Assistance Program

Available to all Phase II awardees to foster commercial success in Phase III and beyond

Third party NOAA contractor provides:

- * Customized training and mentoring to awardees
- * Assistance in the development of a commercialization strategy
- * Networking and industry connections



NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION OCEANIC AND ATMOSPHERIC RESEARCH

TECHNOLOGY PARTNERSHIPS OFFICE

Promoting Partnership & Commercialization of NOAA Technology and Innovations

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