

NOAA's Technology Partnerships Office

WV Focus Forward

April 22, 2021

Derek Parks

Deputy Director, Technology Partnerships
Office

NOAA Technology Partnerships Office Programs

- Small Business Innovation Research (SBIR) Program
- Technology Transfer Program



Small Business Innovation Research (SBIR)



The SBIR Program

- Federal-wide - Eleven Agencies participate - (U.S. Small Business Administration is the coordinating agency)
- Nation's largest source of early stage/high risk funding for start-ups and small businesses
- Competitive awards-based program
- Enables small businesses to explore their technological potential and provides the incentive to profit from its commercialization



SBIR Mission

To support scientific excellence and technological innovation through the investment of Federal research funds in critical American priorities to build a strong national economy... one small business at a time



Program Goals

- Meet federal **research and development needs**
- Stimulate technological **innovation**
- Foster and encourage **participation** in innovation and entrepreneurship by women and socially/economically disadvantaged individuals
- Increase private-sector **commercialization** of innovation derived from federal research and development funding
- **COMMERCIALIZATION!!**



Funding to turn U.S. small businesses R&D into products and services with global impact



SBIR Applicant Eligibility/Requirements

- Company must be for profit, U.S. owned/operated, and have under 500 employees
- Work must be performed in the U.S.
- Principal Investigators primary employment (>50%) must be with the small business
- May subcontract up to:
 - 33% (Phase I)
 - 50% (Phase II)
- Focus is on performing R&D – not commercializing a technology that has already been developed



NOAA SBIR Program Structure

Phase I: Proof of Concept

- * 6 months
- * Up to \$150K

Phase II: Full R/R&D to Prototype

- * 24 months
- * Up to \$500K+

Phase III: Further Development /Commercialization

- * Non-SBIR funds
- * May sole Source from any agency



National Oceanic & Atmospheric Administration

U.S. Department of Commerce

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 >

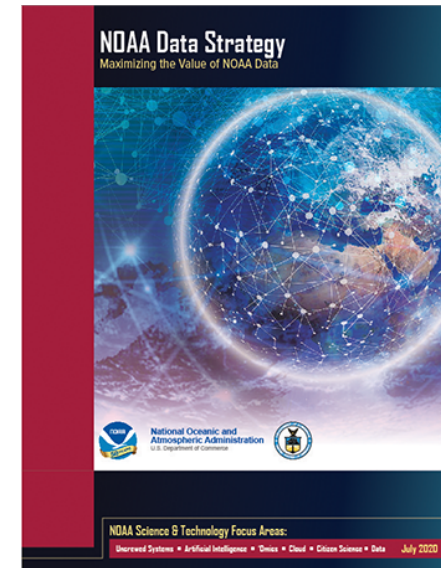


Charting >



Sanctuaries >

NOAA Science & Technology Focus Areas



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

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
- Technical and business assistance provide to small businesses



FY 2021 Notice of Funding Opportunity (NOFO)

- Released October 15, 2020
- Proposals Due January 13, 2021 **(CLOSED)**
- Available at Grants.gov (keyword search: NOAA SBIR)

TOPICS:

- Blue Economy
 - 'Omics
- Artificial Intelligence
 - Uncrewed Systems
- Citizen Science & STEM Education



NOAA SBIR Program

Awards	Grants
Solicitations per fiscal year	One
Released	Mid-October
Proposals due	Mid-January
Available	Grants.gov
Estimated Phase I Awards	15 to 30 (up to \$150K each)
Estimated Phase II Awards	10 to 15 (up to \$500K each)
Estimated Annual Funding	~\$10M



SBIR Participating Agencies

Department of Agriculture
(USDA)

Department of Commerce
(DoC)
NIST, NOAA

Department of Defense
(DoD)

Department of Education
(ED)

Department of Energy
(DOE)

Dept of Health and Human
Services
(HHS)
NIH, FDA, CDC, ACL

Department of Homeland
Security
(DHS)

Department of
Transportation
(DOT)

Environmental Protection
Agency
(EPA)

National Aeronautics and
Space Administration
(NASA)

National Science
Foundation
(NSF)



Why SBIR Matters

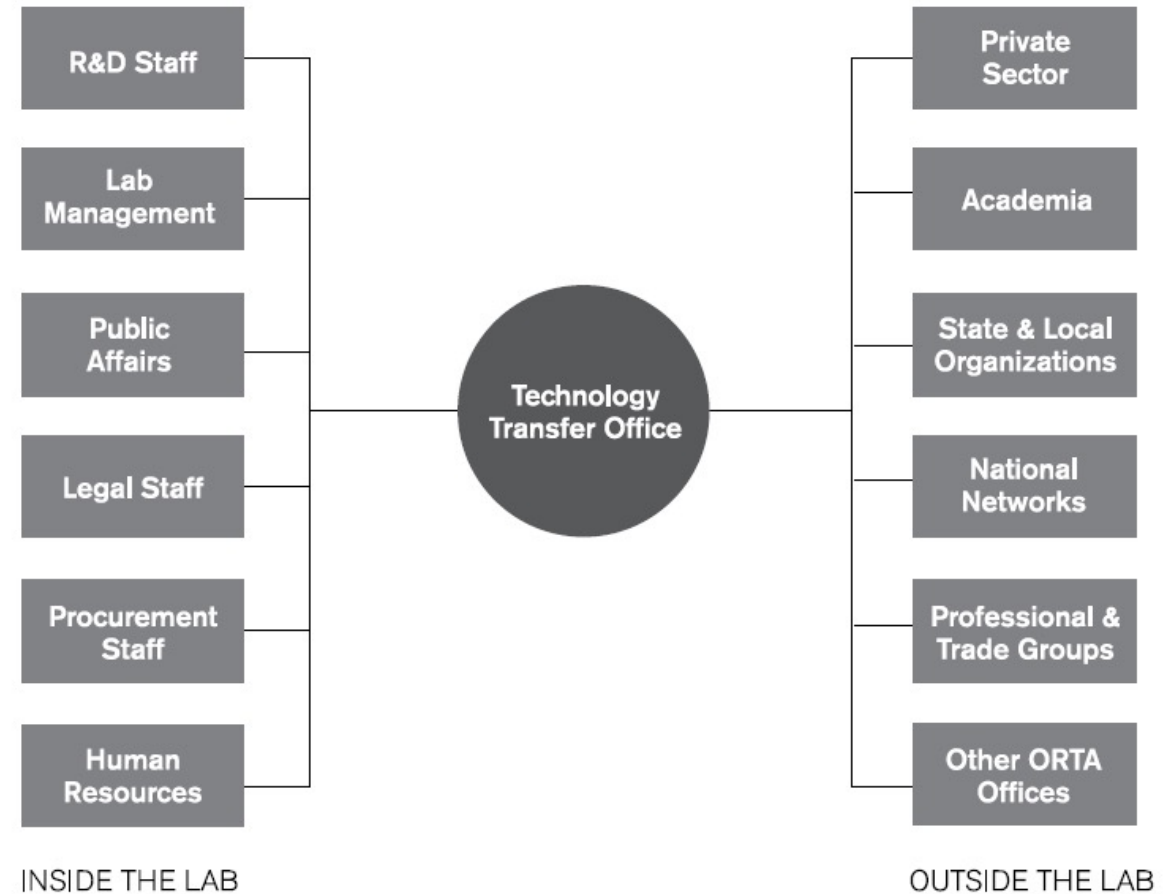
- Small businesses retain intellectual property rights
- Act as a stamp of approval for young firms allowing them to obtain resources from outside investment
- Sole Source acquisition of resulting technology – from any of the eleven agencies SBIR/STTR awards
- Does not require firms to give up equity or assume debt
- All data (proposals, reports, etc.) protected for 20 years
- Helps small businesses to commercialize technologies that meets NOAA's mission



NOAA's Technology Transfer Program



The NOAA TPO is the technology transfer facilitator, connecting people inside the laboratory and those outside the laboratory



Patent Licensing

Utilization of Federal Technology

- The Federal Government shall strive...to transfer federally owned or originated technology to State and local governments and to the private sector.
- It is the policy and objective...to **use the patent system** to promote the utilization of inventions arising from federally supported R&D

NOAA Practice

- NOAA has patented and licensed selected technologies (estimated positive cost-benefit)
- Majority of NOAA's technology transfers are done through Publication, Open Source or CRADA



Cooperative R&D Agreements (CRADA)

Purpose and Use

- Written agreement between a NOAA laboratory and one or more non-Federal parties
- Conduct collaborative R&D consistent with the NOAA mission
- Establishes rights and ownership of co-developed technologies
- Protects from FOIA disclosure for up to 5 Years
- May be used to transfer unpatented federal technology to industry

NOAA laboratory provides

- Personnel, services, facilities, equipment, intellectual property or other resources with or without reimbursement (but not funds)

Non-Federal parties provide

- Funds, personnel, services, facilities, equipment or other resources



Facilities Use CRADA

Purpose and Use

- Allows non-federal partners to access NOAA facilities and specialized equipment
- Still provides IP protection to collaborator

NOAA laboratory provides

- Facility/Equipment
- Minimal personnel support
- Activities must be directly related and supportive of Lab mission

Non-Federal parties provide

- Funds and personnel



Questions?

EMAIL: NOAA.SBIR@noaa.gov

www.noaa.govwww.noaa.gov

www.techpartnerships.noaa.gov

