

Environmental Protection Agency's Small Business Innovation Research (SBIR) Program

April Richards, Program Manager Informational Webinar June 6, 2019



Welcome to the EPA SBIR Webinar

 All participants microphones are muted, no need to unmute, we will take all questions through the chat box (bottom left) at the end



 Slides will be sent out after the webinar and posted on our website



Federal SBIR Program

Set-aside program for small businesses to engage in federal R&D



Promotes commercialization



SBIR Budget = 3.2% of Federal Extramural R&D Budget



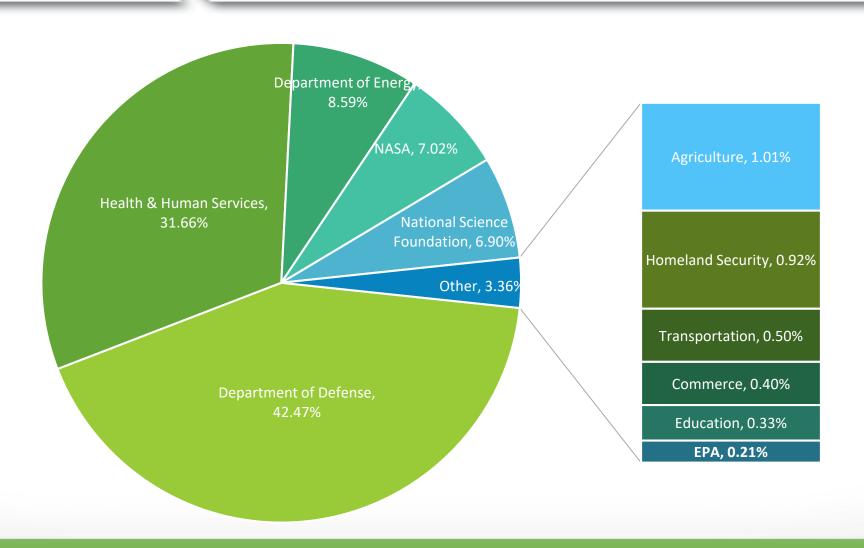
Approximately \$2.5 Billion



Information at: www.sbir.gov



11 Federal SBIR Programs





EPA-SBIR Mission

EPA

Protect human health and the environment

EPA SBIR

Support development and commercialization of innovative technologies to meet Agency's mission





EPA SBIR Budget & Awards

Award Budget for FY19 = $^{\$}4.2$ M

PHASE I:

Proof Of Concept

\$100,000

6 Months

Awards = Contracts

PHASE II:

Develop & Commercialize
Technology

\$400,000

2 Years



EPA'S SBIR Program



One of the small SBIR Programs



Provide awardees with EPA technical connection



Focus on commercialization: \$6,500 & \$100,000



Communicate successful projects



Help to protect the planet



Next Solicitation Opens: June 2019 (closes ~45 days later)



Information at: www.epa.gov/sbir

Apply at: FedConnect

Subscribe to SBIR listserv:

https://www.epa.gov/sbir/sbir-listserv



Solicitation - Broad Topic Areas







Air Quality



Land Revitalization



Homeland Security



Sustainable Materials Management



Safer Chemicals







- Sampling devices for microplastics
- Rehabilitation of water infrastructure
- Technologies for the destruction of PFAS in water and wastewater
- POU treatment for opportunistic pathogens
- Rapid detection and treatment of antibiotic resistant bacteria in wastewater
- Treatment for cyanobacteria and cyanotoxins in drinking water
- Resource Recovery for Decentralized Wastewater Systems





Air Quality



Innovative Air Monitoring Technologies:

- ethylene oxide (EtO)
- sulfur dioxide (SO2)





Land Revitalization



• Mining site characterization and remediation







Homeland Security





- 3-D Gamma Camera to Map Radiological Contamination
- Novel water distribution and stormwater system sensors





Sustainable Materials Management



- New Applications for Industrial Non-Hazardous Secondary Materials
- Preventing Food Waste





Safer Chemicals



Safer paint and coating removal products







Selecting A Research Topic

- It is the responsibility of the company to select the most appropriate topic
- The topic you select will determine which peer review panel reviews your proposal
- EPA budget is modest so program is competitive
- Proposals must be responsive to specific topics
- Program manager can provide general advice on your proposed technology





Anticipated Schedule

PHASE I

Contracts Began:

April 2020

Contracts End:

September 2020

PHASE II

Solicitation Open:

• September 2020

Proposals Due:

November 2020

Contracts Awarded:

• May 2021

Option
Documentation Due:

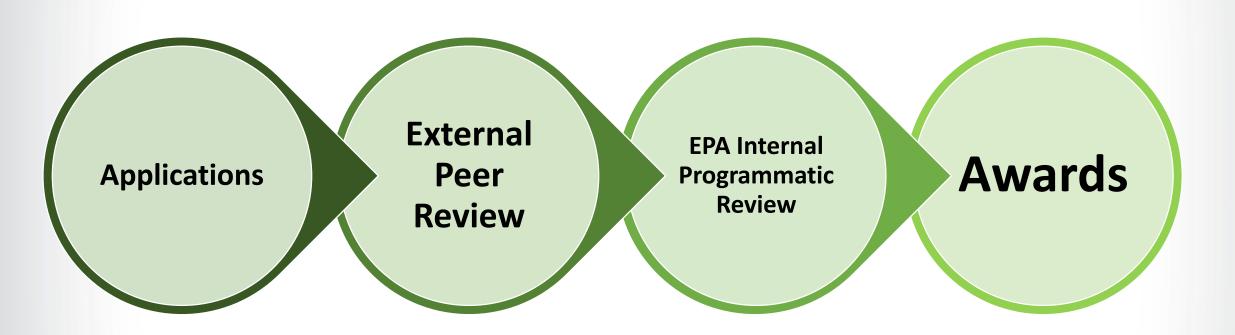
• 90 days before end of Phase II contract

Phase II Ends:

• May 2023



Proposal Evaluation & Selection





External Peer Review: Phase I

RATINGS

Highly Recommend

Recommend

Do Not Recommend

REVIEW CRITERIA

Commercialization Criteria

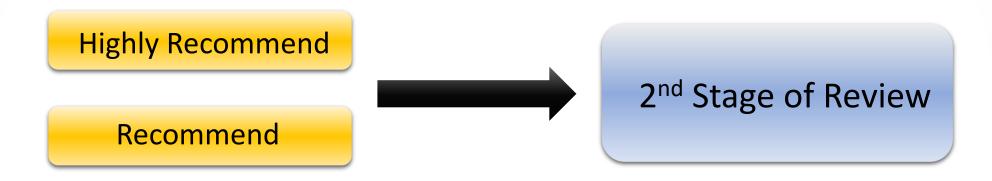
- Market Opportunity
- Company/Team
- Commercialization Approach

Technical Criteria

- Innovation
- Technical Approach
- Technical Challenges



Internal Programmatic Review



EVALUATION CRITERIA

- Relevance to Topics & Agency priorities
- Advance Sustainability







Wide use, broad application/impact



Apply Via FedConnect

- All submissions are electronic
- Using FedConnect
- Please start early to register you company
- Register at: https://www.fedconnect.net/FedConnect/





Required Registrations

Dun and Bradstreet Universal Numbering System (DUNS)

All registrations require that applicants be issued a DUNS number. After obtaining a DUNS number, applicants can begin both SAM, and SBA Company registry. The same DUNS number must be used for all registrations, as well as on the proposal.

SBA Company Registry

See solicitation for instructions on how to register and how to attach proof of registration to your proposal package. Applicants must have a DUNS number to complete this registration. SBA Company registration is **NOT** required before SAM.

System for Award Management (SAM) (formerly CCR)

Applicants must complete and maintain an active registration, which requires renewal at least annually. The renewal process may require as much time as the initial registration. SAM registration includes the assignment of a Commercial and Government Entity (CAGE) Code for domestic organizations which have not already been assigned a CAGE Code.

FedConnect

Electronic applications system for EPA SBIR. FedConnect is a web portal that connects agencies and vendors.



Environmental SBIR Funding



National Science Foundation (NSF)



National Institute of Environmental Health Sciences (NIEHS)



Department of Energy (DOE)



United States Department of Agriculture (USDA)



National Oceanic and Atmospheric Administration (NOAA)



SBIR Sensors Research Microsite

The Federal government is a significant driver of sensor innovation: investing in low cost, portable, easy-to-use technologies to facilitate the collection of real time, reliable measurement information.

Central web location promotes collaboration across SBIR agencies

Easier for sensor developers to locate relevant SBIR/STTR funding opportunities





















Advice from Contracts Office

Register with SBA and include onepage proof with your proposal

Check your budgets for errors

Submit your proposal well before the deadline



Advice from Peer Review

Offerors should be sure to select the correct Topic Number.

Be sure to use the forms (Appendices) from the relevant solicitation.

Look at the peer review criteria carefully to make sure you are addressing them.

If you decide not to send in a proposal, let us know if you want to be a peer reviewer in a particular topic.



Advice from Program Office

Read solicitation carefully

Develop a strong proposal

- Has an understandable, well-written project summary
- Addresses peer review criteria
 - Both commercial and technical



Take Home Messages

- Make sure your technology fits the specified topic areas
- Start your registrations early
- Please do not wait until the last minute--submit your proposal before the deadline





EPA SBIRSuccess Stories



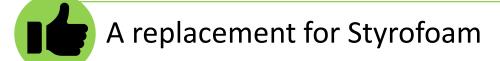


Ecovative: Green Island, NY





Mushroom materials for packaging, insulation, & structural cores



Utilizes fungal mycelium grown on agricultural waste

Renewable, Biodegradable, Compostable

Recently licensed "leather" biomaterial to Bolt Threads (Forbes, 4/2018)



EP Purification: Champaign, IL









Design/manufacture ozone-producing water disinfection systems



Systems generate any amount of ozone for precise disinfection



Available with solar panel, this allows use in +24 countries

Received the 2014 Wells Fargo Clean Energy Challenge Prize & Entrepreneurial Excellence New Venture Award



For More Information

SBIR Program Manager:

April Richards <u>richards.april@epa.gov</u>

Website: www.epa.gov/sbir

Listserv: https://www.epa.gov/sbir/sbir-listserv

SBA SBIR website: www.SBIR.gov



QUESTIONS?

Please Submit in Chat box.
We will address as many as time allows.

