



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

April Richards, Program Manager
Informational Webinar
June 10, 2021



Welcome to the EPA SBIR Webinar

- All participants microphones are muted, no need to unmute
- If you have any questions or concerns, please ask through the chat box
- Slides and Q&A will be posted on our website after the webinar





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 \$3.2 Billion

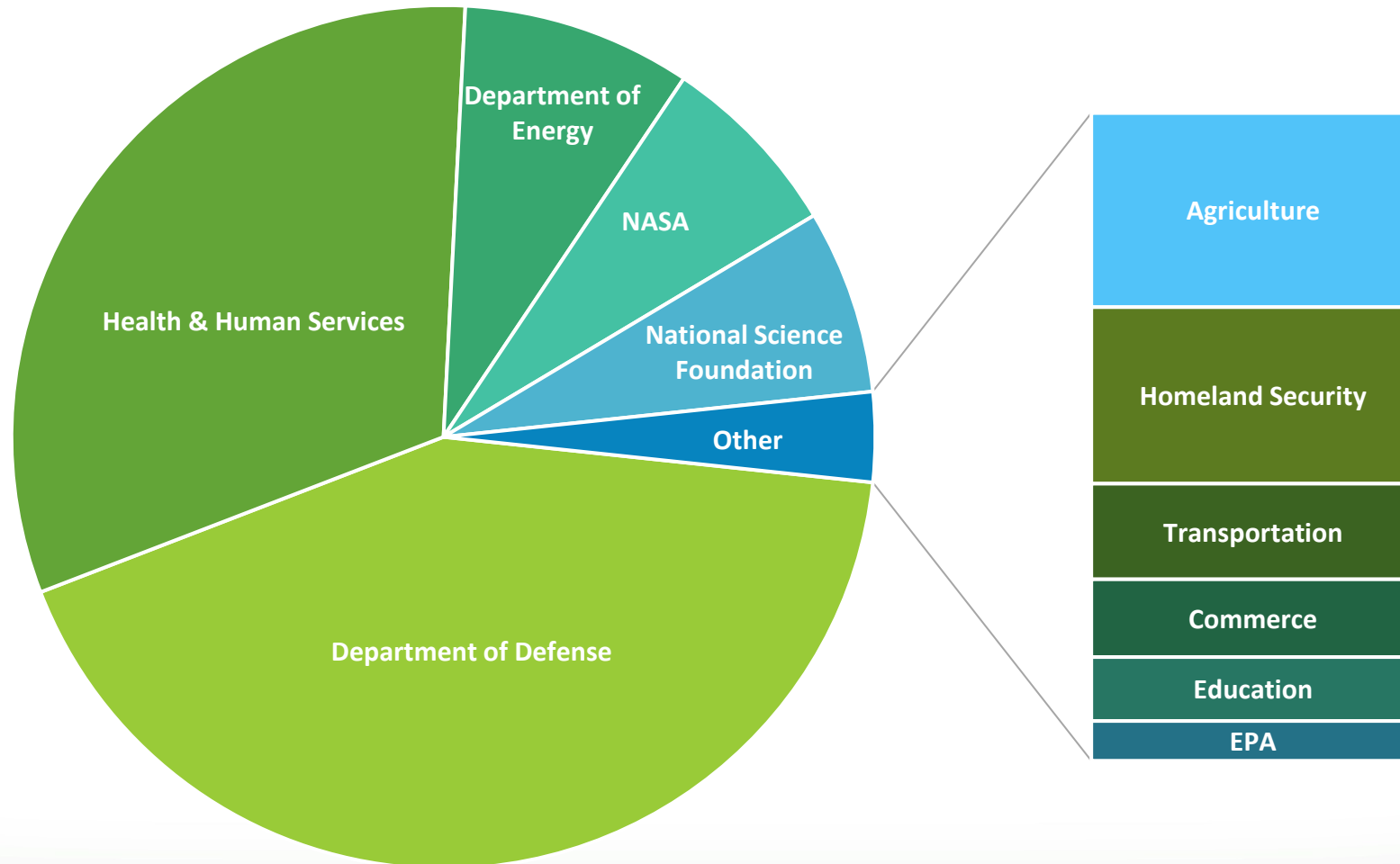


Information at: www.sbir.gov



SBIR
America's Seed Fund™
POWERED BY EPA

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 FY21 Phase I & II



~\$5.0 M

PHASE I:

Proof Of Concept

\$100,000

6 Months

*Projects
awarded as
contracts*

PHASE II:

*Develop & Commercialize
Technology*

\$400,000

2 Years

Commercialization Option



\$100,000



EPA'S SBIR Program

Provide awardees with EPA technical connection

Focus on commercialization

Communicate successful projects

Help to protect the planet



Planned Solicitation
Opening:
June 16, 2021
(closes ~45 days later)



Information at: www.epa.gov/sbir

Apply at: FedConnect

Subscribe to SBIR listserv:

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



- Clean and Safe Water



- Air Quality



- Homeland Security



- Sustainable Materials Management



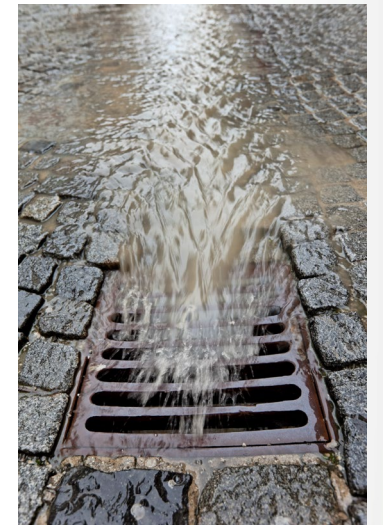
- Safer Chemicals



- Risk Assessment

Clean and Safe Water

- Modular decentralized non-potable water **reuse** for urban applications
- Low-input decentralized non-potable water **reuse** for irrigation applications
- Detection of **lead** service lines
- Retrofit technologies to improve operation of **stormwater** management infrastructure
- Technologies to process environmental samples of **microplastics**
- Technologies to remove **microplastics** from wastewater or stormwater





Air Quality

- Air monitoring technology for [air toxics](#)
- Low-cost sensors for [air toxics and odors](#)
- Continuous emission monitoring system for [metal HAPs](#)
- Integrated sampling, continuous monitoring for [metal HAP](#) emissions
- Technologies to reduce exposure to [radon](#) in buildings
- Air monitoring technology for [methane](#) from oil and gas storage tanks



Homeland Security

- Air treatment methods to reduce the risk from transmission of viruses and bacteria in enclosed or semi-enclosed environments

Sustainable Materials Management

- Innovative technologies that help consumers prevent **food waste** in the acquisition, preparation, and storage of food
- Innovative technologies that will improve the U.S. **recycling** system
- Low impact reusable and recyclable material alternatives to low value **plastic** items that escape management
- Low impact construction materials and technologies to reduce **embodied carbon** in buildings
- Low impact construction materials and technologies to increase **resiliency** to disasters and recovery of materials generated from these incidents



Safer Chemicals

- Microphysiological systems for predictive toxicology
- Post application pesticide drift predictor
- PCB-free color technologies



Risk Assessment

- Software tools and machine-learning applications for systematic review in science



Selecting a Research Topic

- It is the responsibility of the company to select the most appropriate topic
- 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

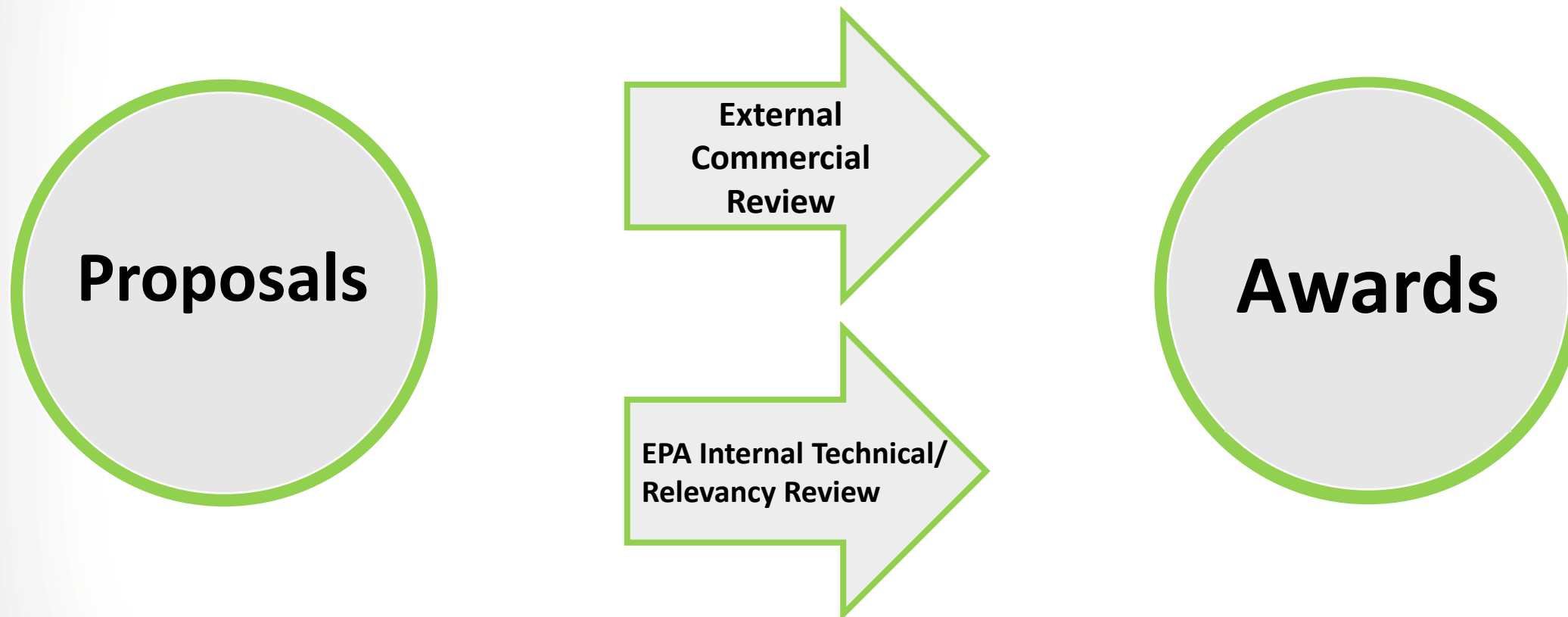




Anticipated Schedule

- Phase I:
 - Solicitation Opens: June 2021
 - Solicitation Closes: August 2021
 - Estimated start date: December 2021
- Phase II:
 - Solicitation Opens: end of Phase I
 - Solicitation Closes: 45 days later
 - Estimated award date: November 2022

Proposal Evaluation & Selection





Proposal Evaluation

Commercial Criteria

- Innovation/IP
- Market Opportunity
- Company/Team (Commercial)
- Commercialization Approach

Solicitation is official word....

Technical Criteria

- Technical Approach
- Company/Team (technical)

Relevancy Criteria

- Impact/Relevance to topic



Apply Via FedConnect

- Using FedConnect
- Please start early to register your 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 or indicate proof of registration** to your proposal. 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.



Contracting Office

- Matt Huber, SBIR Contracting Officer
 - SAM registrations
 - ??

Report Fraud, Waste, and Abuse to the OIG



IG Hotline

202-566-2476

888-546-8740

OIG_Hotline@epa.gov

<https://www.epa.gov/office-inspector-general>

Keith Squires

919-541-0931

Squires.Keith@EPA.gov



OFFICE OF INSPECTOR GENERAL

U.S. Environmental Protection Agency

@EPAoig
www.epa.gov/oig



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)



Upcoming SBIR Event

- 2021 National SBIR Week - July 19th-23rd
- Register here: <https://www.eventbrite.com/e/2021-national-sbir-week-registration-155841757893>
- Find more information: <https://www.sbirroadtour.com/>



Take Home Messages

- Make sure your technology fits the specified topic areas
- Read solicitation carefully
- Start your registrations early
- Develop a strong, readable proposal
- Address all review criteria
- Please do not wait until the last minute--submit your proposal before the deadline



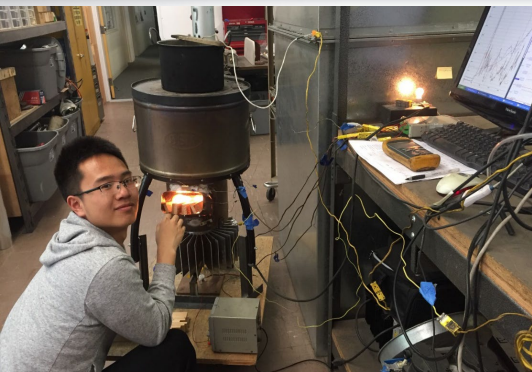


EPA SBIR Success Stories





ASAT, Inc: Cottage Grove, OR



Developed the ASAT Integrated Stove, an affordable and clean-burning biomass stove for heating, cooking and electricity generation



Partnership with the Gates-funded Global Good organization-sending samples worldwide

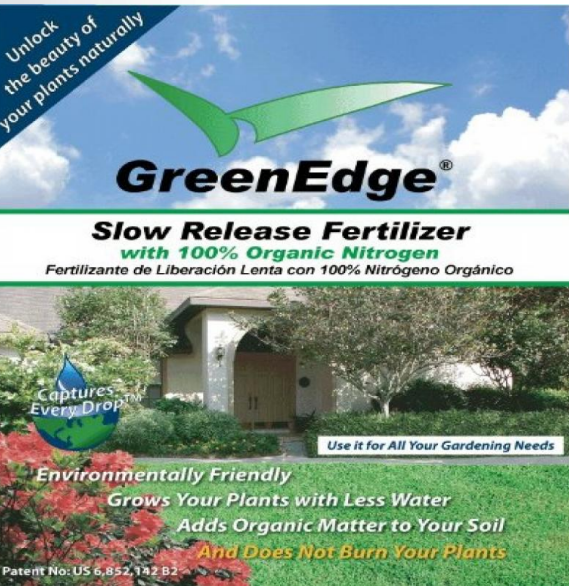


ASAT has succeeded in international sales with products in over 30 countries including Nigeria, China and Kenya

Awarded 2020 [Tibbetts Award](#) recognizing their success in the SBIR program



GreenTechnologies, LLC: Jacksonville, FL



Developed an innovative nutrient recovery process to convert nutrients in wastewater into slow-release organic fertilizers



Fertilizer (GreenEdge®) is sold commercially both nationally and internationally



GreenEdge® products are currently used by more than 100 golf courses in Florida

GreenTechnologies recently expanded operations by opening a new renewable fertilizer manufacturing facility and hiring new technical and business experts

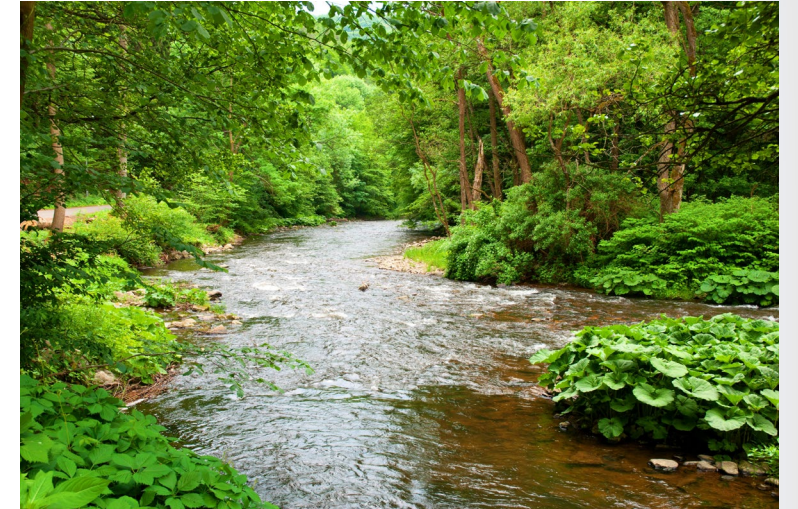


For More Information

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Website: www.epa.gov/sbir

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

Program Overview: <https://www.epa.gov/sbir/sbir-program-overview>

SBA SBIR website: www.SBIR.gov



QUESTIONS?

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

(Presentation and Q&A
will be posted online.)

