

# NASA SBIR/STTR Overview

Jenn Gustetic

NASA SBIR/STTR Program Executive



# SBIR / STTR Programs Vision and Mission



## VISION

Empower small businesses to deliver technological innovation that contributes to NASA's missions, provides societal benefit, and grows the US economy.

NASA's SBIR and STTR programs have awarded **more than \$3.75 billion** to research-intensive American small businesses.

## MISSION

Create opportunities through SBIR/STTR awards to leverage small business knowledge and technology development for maximum impact and contribution

Engineers and scientists from more than 3,100 Firms in all 50 States, DC, and Puerto Rico have participated across the two programs.

Approximately 15,000 total awards have been made to-date.

# The SBIR / STTR Programs



## **Small Business Innovation Research (SBIR)**

- A set-aside program for small business to engage in Federal R&D – with potential for commercialization
- Currently, 3.2% of Federal agencies Extramural R&D budgets greater than \$100M per year

## **Small Business Technology Transfer (STTR)**

- A sister set-aside program to facilitate cooperative R&D between small business concerns and U.S. research institutions – with potential for commercialization
- Currently, 0.45% of the extramural research budget for all agencies with a budget greater than \$1B per year

# Participating Federal Agencies

## SBIR + STTR Programs



Department of Defense (DoD)



Department of Health and Human Services (HHS)



Department of Energy (DoE)



National Aeronautics and Space Administration (NASA)



National Science Foundation (NSF)

## SBIR Program Only



Department of Agriculture (USDA)



Department of Education (DoEd)



Department of Transportation (DoT)



Environmental Protection Agency (EPA)



Department of Homeland Security (DHS)



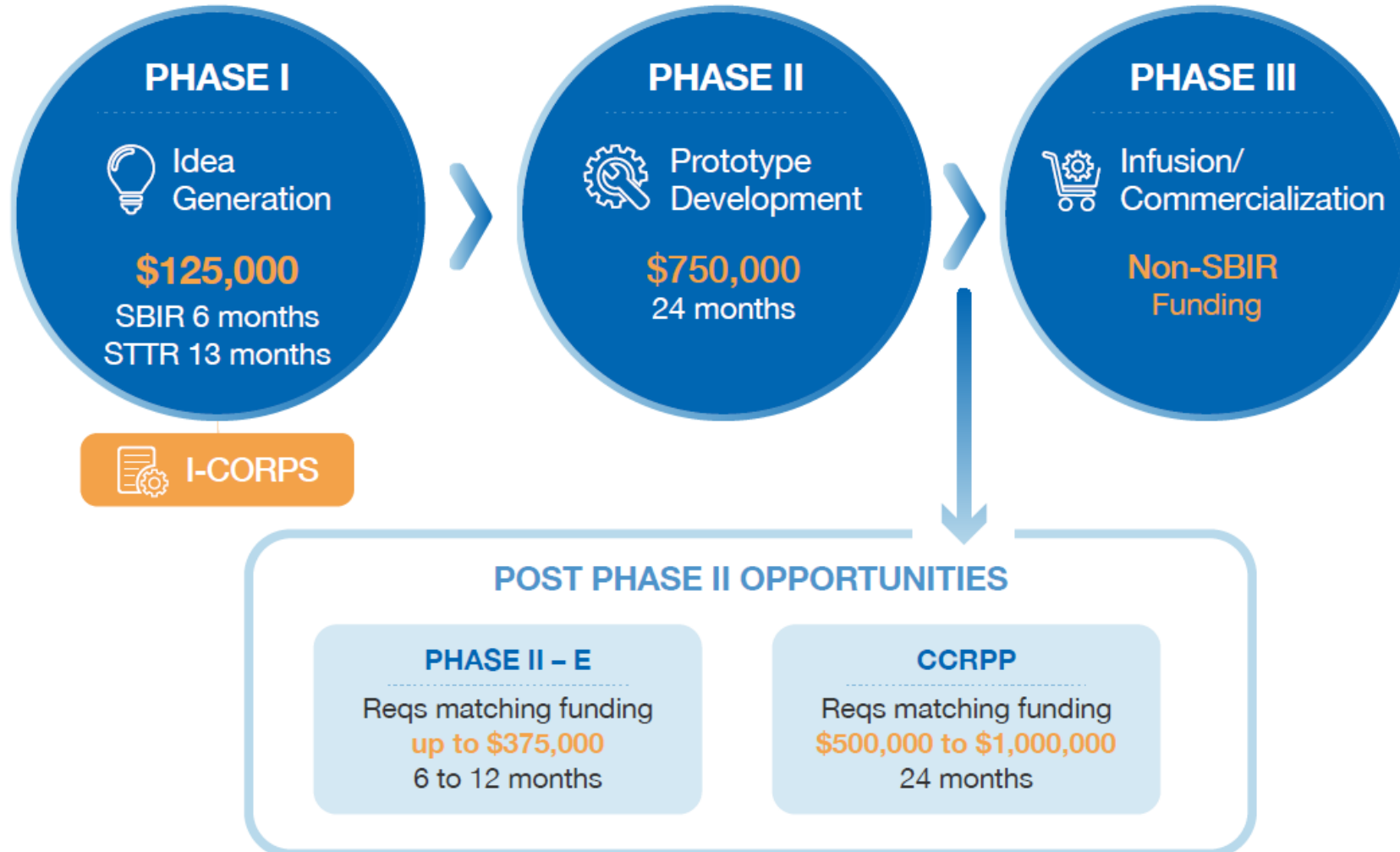
Department of Commerce (DoC)

# NASA Representatives to Meet

- NASA's Principal Technologists
- NASA STMD Program Representatives
- NASA Moon to Mars Panelists from the various NASA Mission Directorates
- NASA SBIR/STTR Program's Mission Directorate Liaisons and Mission Directorate Representatives

# SBIR/STTR Program Structure

## NASA SBIR/STTR PROCESS



Go to [sbir.nasa.gov/guide](https://sbir.nasa.gov/guide) for details



# Learning about NASA's Needs



## 2019 Focus Areas (FA)

<b>FA 1:</b> In-Space Propulsion Technologies	<b>FA 13:</b> Information Technologies for Science Data
<b>FA 2:</b> Power Energy and Storage	<b>FA 14:</b> In-Space and Advanced Manufacturing
<b>FA 3:</b> Autonomous Systems for Space Exploration	<b>FA 15:</b> Materials, Materials Research, Structures, and Assembly
<b>FA 4:</b> Robotic Systems for Space Exploration	<b>FA 16:</b> Ground and Launch Processing
<b>FA 5:</b> Communications and Navigation	<b>FA 17:</b> Thermal Management Systems
<b>FA 6:</b> Life Support and Habitation Systems	<b>FA 18:</b> Air Vehicle Technology
<b>FA 7:</b> Human Research and Health Maintenance	<b>FA 19:</b> Integrated Flight Systems
<b>FA 8:</b> In-Situ Resource Utilization	<b>FA 20:</b> Airspace Operations and Safety
<b>FA 9:</b> Sensors, Detectors and Instruments	<b>FA 21:</b> Small Spacecraft Technologies
<b>FA 10:</b> Advanced Telescope Technologies	<b>FA 22:</b> Low Earth Orbit Platform Utilization and Microgravity Research
<b>FA 11:</b> Spacecraft and Platform Subsystems	<b>FA 23:</b> Digital Transformation for Aerospace
<b>FA 12:</b> Entry, Descent and Landing Systems	

## Focus Areas

NASA's research subtopics are organized by "Focus Areas" that group interests and related technologies.

- **Identify** the Area(s) closest to your innovation/idea
- **Go** to our website to research
- **Prepare to write** a proposal tailored to NASA's needs

<https://sbir.nasa.gov/solicitations>

2020 Solicitation

NASA SBIR/STTR Solicitation

Expected release: January 2020

<https://sbir.nasa.gov/solicitations>

Visit NASA SBIR/STTR exhibit table to sign up for program updates.



# NASA SBIR/STTR Website | [www.sbir.nasa.gov](http://www.sbir.nasa.gov)

The NASA SBIR/STTR website is located at [www.sbir.nasa.gov](http://www.sbir.nasa.gov)

**Research NASA's Needs**  
Annual Solicitations including past years

## Looking to Join the Program?

- Program Basics
- Forms Library
- Model Contract
- In-depth Training Resources and FAQs

The screenshot shows the NASA SBIR/STTR website homepage. At the top is a navigation menu with links: HOME, ABOUT SBIR/STTR, SOLICITATIONS, SCHEDULE & AWARDS, HANDBOOKS, RESOURCES, and CONTACT US. Below the navigation is a large banner for the "INNOVATION & OPPORTUNITY CONFERENCE" held on November 14-15, 2019, in Aurora, Colorado. The banner includes logos for the host (CBDF Colorado Business Development Center) and partners (NASA, SBIR-STTR). Below the banner is a section titled "Register today: IOC" with a paragraph of text and a "Register and learn more" button. At the bottom of the page are three image-based sections: "Proposers" (a woman at a computer), "Awardees" (two people shaking hands), and "Publications" (a stack of papers).

**Contact the Program**  
SBIR/STTR Helpdesk and Program Points of Contact

# NASA Mentor-Protégé Program



The NASA Mentor-Protégé Program encourages NASA prime contractors to assist eligible protégés to:

- Enhance their capabilities to perform on NASA contracts and subcontracts,
- Foster the establishment of long-term business relationships between these entities and NASA prime contractors, and
- Increase the overall number of these entities that receive NASA contract and subcontract awards.

For more information on the Mentor-Protégé Program visit: <http://www.osbp.nasa.gov/mpp/index.html>



# What Success Looks Like in the NASA SBIR/STTR Program



- U.S. small businesses working in the aerospace industry are unique in their needs, and **we are constantly striving to innovate our programs to better assist the community of small businesses that we serve.**
- We view our programs as having a **dual mandate**, focusing not only on advancing research relevant to NASA where NASA is the primary customer, but also acting as early stage seed funding for promising high-growth commercial space ventures where NASA is not the first—or the only—customer.
- **NASA SBIR/STTR Success Story Firms at IOC:**
  - Advanced Space Cubic | Nuvotronics
  - Astrobotic
  - Black Swift Tech
  - Busek
  - CFD Research Corp
  - Made In Space
  - Quest Thermal
  - Tethers Unlimited

# Contact Us and Let's Innovate Together



Website

**[www.sbir.nasa.gov](http://www.sbir.nasa.gov)**

Sign up for our quarterly newsletter

**<https://sbir.nasa.gov/info>**

NASA Help Desk

**301.937.0888**