National Aeronautics and Space Administration

NASA Small Business Innovation Research Small Business Technology Transfer

Bruce Cogan | Launch Your Innovation with NASA's SBIR/STTR Programs

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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.

MISSION

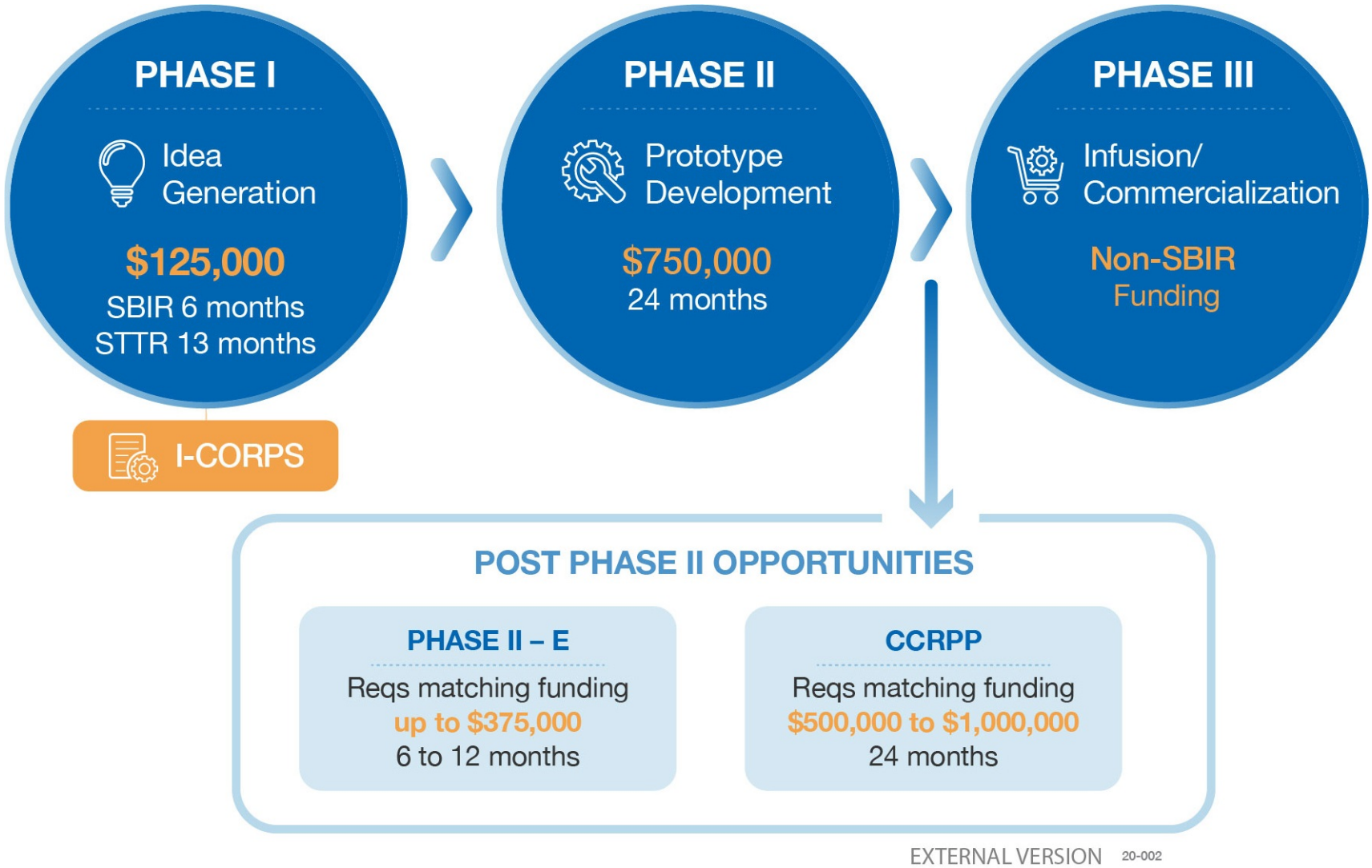
Create opportunities through SBIR/STTR awards to leverage small business knowledge and technology development for maximum impact and contribution

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

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.

SBIR/STTR Program Structure



Visit **sbir.nasa.gov/guide** for details

Learning about NASA's Needs

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 Focus Areas (FA)	
FA 1: In-Space Propulsion Technologies	**FA 13:** Information Technologies for Science Data
FA 2: Power Energy and Storage	**FA 14: On-orbit Servicing, Assembly, and Manufacturing (OSAM)**
FA 3: Autonomous Systems for Space Exploration	**FA 15:** Materials, Materials Research, Structures, and Assembly
FA 4: Robotic Systems for Space Exploration	**FA 16:** Ground and Launch Processing
FA 5: Communications and Navigation	**FA 17:** Thermal Management Systems
FA 6: Life Support and Habitation Systems	**FA 18:** Air Vehicle Technology
FA 7: Human Research and Health Maintenance	**FA 19:** Integrated Flight Systems
FA 8: In-Situ Resource Utilization	**FA 20:** Airspace Operations and Safety
FA 9: Sensors, Detectors and Instruments	**FA 21: Small Spacecraft Technologies**
FA 10: Advanced Telescope Technologies	**FA 22:** Low Earth Orbit Platform Utilization and Microgravity Research
FA 11: Spacecraft and Platform Subsystems	**FA 23:** Digital Transformation for Aerospace
FA 12: Entry, Descent and Landing Systems	**FA 24:** Dust Mitigation

Post-Phase II Opportunity: NASA Flight Opportunities

Suborbital Flight Testing to Mature SBIR/STTR Technologies

- NASA Flight Opportunities (FO) is interested in investing in suborbital flight testing of SBIR/STTR technologies
- Allows for continued maturation of technologies beyond TRL4
- What FO is looking for:
  - Tech pull: NASA customer or commercial application
  - Multiple investors: skin-in-the-game
- Phase II-E option: FO investment matched by SBIR/STTR Program
  - First Phase II-E investment ($100K) made to Air Squared Inc. to test vapor compression refrigeration system for food storage on spacecraft in parabolic flight
- Flight Opportunities Contact
  - Alexander van Dijk, **alexander.vandijk@nasa.gov**
  - **www.nasa.gov/flightopportunities**

Contact us and let's innovate together

Contact me

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Website

www.sbir.nasa.gov

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