

Opportunities Beyond SBIR/STTR

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Announcement of Collaboration Opportunity (ACO)

PPP to Advance Emerging Space Technology System Capabilities (Min. TRL 3)

- Partnerships focused on industry-developed space technologies that can advance the commercial space sector and benefit future NASA missions
- Can accelerate the availability of, and reduce costs for the development and infusion of these emerging space system capabilities
- NASA will provide technical expertise and test facilities, as well as hardware and software to aid industry partners
- Award value of in-kind resources worth about \$1M over one to two year period

Program	FY2019 Topic	FY2019 Awardee (SBIR Company)
SST	Advanced Communications, Navigation, and Avionics	Advanced Space, LLC. (GSFC); Vulcan Wireless, LLC (GSFC)
GCD	Advanced Materials	Aerogel Technologies, LLC. (GRC); Spirit Aerosystems (GRC)
TDM	Entry, Descent, and Landing	Anasphere, Inc. (MSFC)
GCD	Entry, Descent, and Landing	Bally Ribbon Mills (ARC); Blue Origin (GSFC, JSC); Sierra Nevada Corp (2 awards; LaRC); SpaceX (KSC)
GCD	In-Space Manufacturing and On-Orbit Assembly	Space Systems/Loral (LaRC)
GCD	Power	Blue Origin (GRC, JSC); Space Systems/Loral (GRC, MSFC)
TDM	Propulsion	Colorado Power Electronics (GRC); SpaceX (GRC, MSFC)
GCD	Propulsion	Aerogel Rocketdyne (MSFC); Blue Origin (LaRC, MSFC)
GCD	Other Space Technologies	Lockheed Martin (2 awards; LaRC, KSC)

NASA anticipates releasing ACO every year <https://go.usa.gov/xQRwV>

Tipping Point Technologies

PPP to Advance Tipping Point Space Technology System Capabilities (Min. TRL 4)

- Definition: An investment in a ground/flight demo will result in:
 - a significant advancement of the technology's maturation, and
 - a significant improvement in the offerors' ability to successfully bring the technology to market
 - Substantial benefit to **both** commercial and government sectors
- Increased Focus on Collaboration with the commercial space sector
- Leverage emerging markets and capabilities to meet NASA's strategic goals & focus on industry needs
- Increase likelihood of infusion into a commercial space application
- Requires a minimum **25 percent contribution (10% for small businesses)** from industry
- Award value: up to \$2M over two year period; up to \$10M over three year period

Program	FY2019 Topic	FY2019 Awardee (SBIR Company)
GCD	Advanced Avionics	Intuitive Machines, LLC; Luna Innovations, Inc.
SST	Autonomous Operations	Blue Canyon Technologies, LLC
GCD	Cryogenic Propellant Production and Management	Blue Origin, LLC; Oxeon Energy, LLC; Skyre, Inc.; Space Exploration Technologies Corp
SST	Efficient and Affordable Propulsion Systems	Accion Systems, LLC; CU Aerospace, LLC; ExoTerra Resource
GCD	Rover Mobility	Astrobotic Technology, Inc.
GCD	Sustainable Energy Generation, Storage and Distribution	Paragon Space Development Corp; TallannQuest, LLC; Infinity Fuel Cell and Hydrogen, Inc.

NASA anticipates releasing Tipping Point Solicitation every year <https://go.usa.gov/xQRwV>