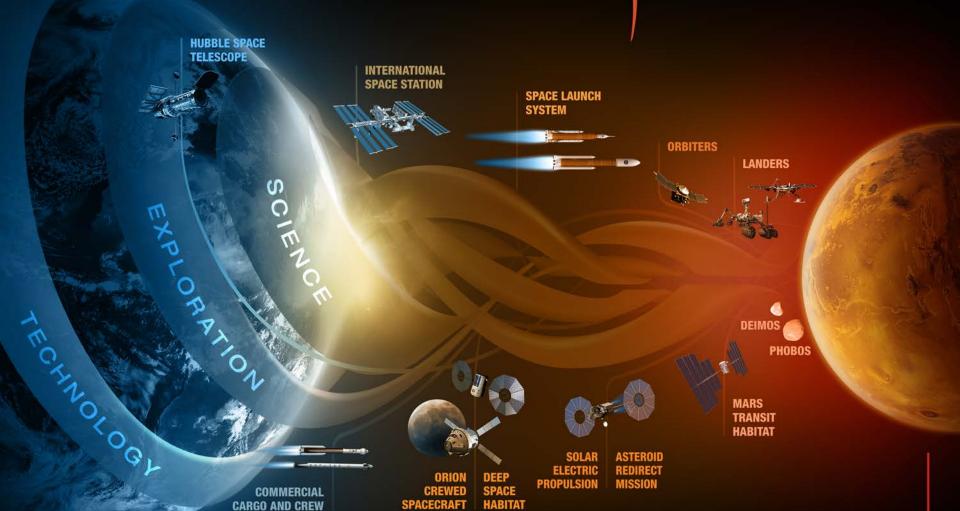


JOURNEY TO MARS





MISSIONS: 6-12 MONTHS
RETURN: HOURS
EARTH RELIANT

MISSIONS: 1-12 MONTHS RETURN: DAYS MISSIONS: 2-3 YEARS RETURN: MONTHS

PROVING GROUND

EARTH INDEPENDENT

Starts Here on Earth





SBIR Assists in Emergency Communication Systems N



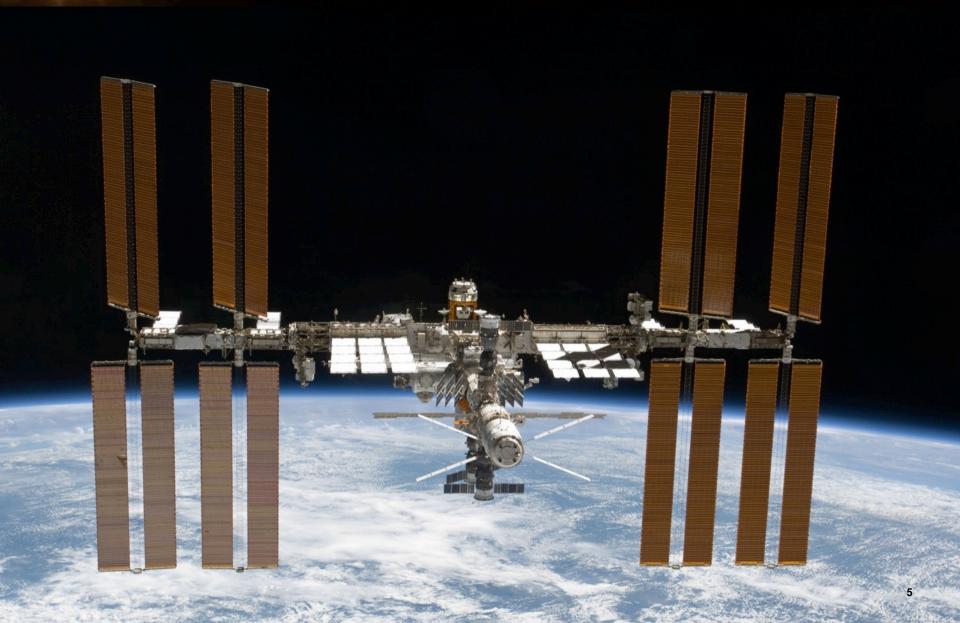
Popular with U.S. military and intelligence agencies, the systems have been used in missile ranges, severe weather, and emergency response situations.

SRS Technologies



SBIR Farms & Manufactures in Space





Farming in Space



Aboard the International Space Station, there is a deployable fresh-food production system called VEGGIE. Astronauts use the system to grow red romaine lettuce and in the summer of 2015 sampled the first ever space-grown crop.

ORBITEC

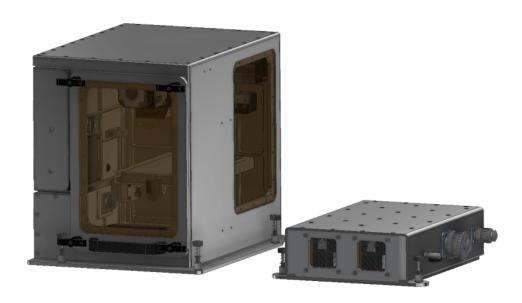


First Zero-Gravity 3D Printer



Made In Space's Zero-G Printer was launched to the ISS in September 2014, making it the first company to manufacture in zero gravity. This will allow for lighter payloads in launch and real time manufacturing of necessities such as tools for repairs.

Made in Space



Bone Densitometer



The first x-ray machine flew up to the ISS in 2014. It has allowed NASA to study bone density in rats and can potentially be used to assess the extent of bone injuries in astronauts.

Techshot, Inc.



SBIR Lands on Mars





SBIR Technologies on Curiosity Rover

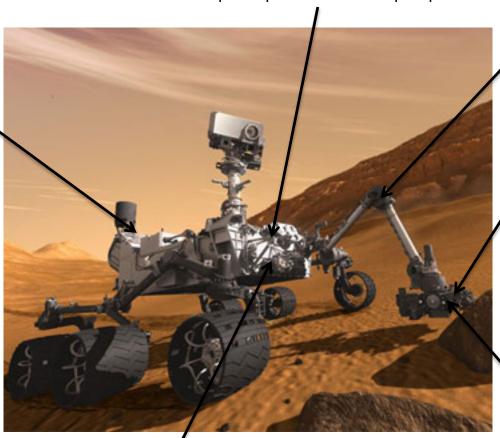


Yardney
Technical
Products
Lithium ion

batteries

Creare

Space-qualified vacuum pump



Starsys Research, Boulder, CO

Gearboxes for robotic arm

Honeybee Robotics

Dust removal tool

inXitu

Chemistry and Mineralogy experiment (CheMin) instrument

GrammaTech

Software for rover operations

SBIR/STTR Program History



- Created by Roland Tibbetts at the National Science Foundation and signed as a Federal wide program in 1982 by Ronald Reagan
- Created in 1992 by the Small Business Research and Development Enhancement Act of 1992, STTR seeks to bridge the gap between basic science and commercialization of resulting innovations.
- SBIR programs have awarded over \$40 billion to research-intensive American small businesses.
- The 450,000 engineers and scientists involved are one of the largest STEM talent concentrations in the world.

Program Eligibility Criteria



Eligibility Criteria

Is your business organized as a for-profit company?

An SBIR/STTR small business (no more than 500 employees) awardee must be a business concern – it
must be organized as a for-profit concern and meet all of the other requirements for a "business
concern" in 13 C.F.R. § 121.105.

Is your principal place of business located in the United States?

All businesses that apply for the SBIR/STTR program must be for-profit companies located in the US.

Must I own a company to receive an SBIR/STTR award?

SBIR/STTR awards go only to small, for-profit, firms that meet the above definition of an SBC. This
includes sole proprietorships.

In addition:

- For SBIR, the primary employment of the principal investigator must be with the small business, and the proposing firm must perform at least 2/3rds of the R&D work in Phase I and at least 1/2 in Phase II
- For STTR, the proposing firm must perform at least 40% of the work with the collaborating research institution performing no less than 30%.

Structure of the Programs





Phase I: Concept

Award Guideline: \$125K

Duration: 6 months (SBIR)12 months (STTR)



Phase II: Full Research, R&D to Prototype

Award Guideline: \$750K

Duration: 24 months

• Phase II-E → 1:1 Matching up to \$150K

Phase II-X \rightarrow 2:1 Matching NASA up to \$500K



Phase III: Commercialization/Infusion

- Non-SBIR/STTR funds
 - Contract from NASA program, other agency, prime contractor

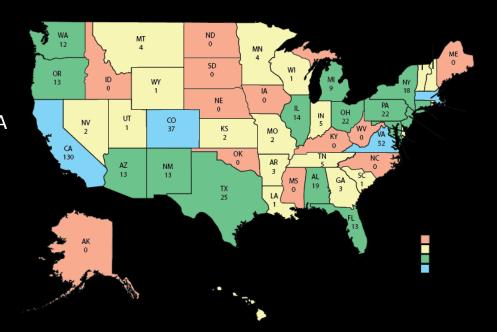
NASA SBIR/STTR Budget



Annual Award Budget FY16:

SBIR & STTR: approx. \$200M

- SBIR is 3.0% of R&D in FY16. In FY17, NASA will increase the SBIR investment to 3.2%.
- STTR is .45% of extramural R&D budget in FY16



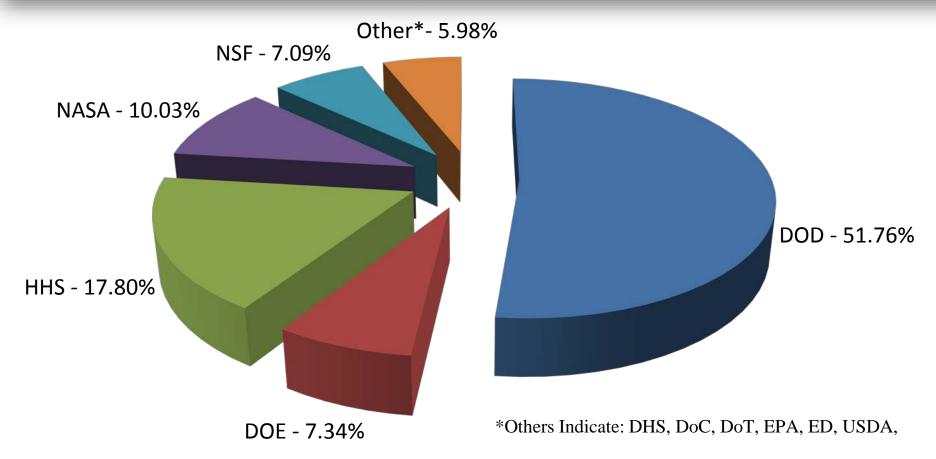
FY 16 Awards At-A-Glance:

- SBIR Awards: 341 Phase I and 137 Phase II
- STTR Awards: 58 Phase I, 21 Phase II

Percentage of SBIR/STTR

Awards by Agency (last 4 years)



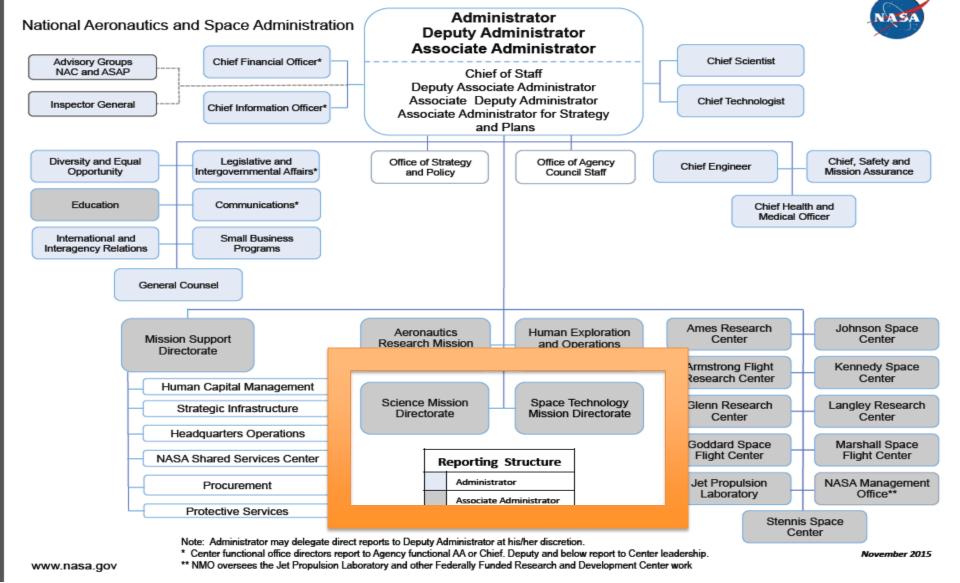


~ 2.6B in FY15 across all agencies

Percentages of Extramural R/R&D Budget for SBIR/STTR

							The state of the s
	FY12	FY13	FY14	FY15	FY16	FY17	
SBIR	2.6%	2.7%	2.8%	2.9%	3.0%	3.1%	
STTR	0.35%	0.35%	0.40%	0.40%	0.45%	0.45%	
Combined	2.95%	3.05%	3.20%	3.30%	3.45%	3.65%	

By federal law NASA is required to set aside the below percentages of its extramural R/R&D budget for the SBIR and STTR Programs, which increases incrementally until 2017



Space Technology Programs



Transformative & Crosscutting Technology Breakthroughs

Pioneering Concepts/Developing Innovation Community

Creating Markets & Growing Innovation Economy

Technology Demonstration Missions bridges the gap between

early proof of concept tests and the final infusion of cost effective, revolutionary technologies into successful NASA.

government and commercial space missions.



Small Spacecraft Technology Program develops and

demonstrates new capabilities employing the unique features of small spacecraft for science, exploration and space operations.



NASA Innovative

Concepts (NIAC) nurtures

visionary ideas that could transform future

breakthroughs radically better or entirely

new aerospace concepts while engaging

America's innovators and entrepreneurs as

NASA missions with the creation of

Advanced

partners in the journey.

Fund stimulates and encourages creativity and innovation within the NASA Centers by addressing the technology needs of the Agency and the Nation. Funds are invested to each NASA Center to support emerging technologies and creative initiatives that leverage Center talent and capabilities.



Space Technology

Research Grants seek to accelerate the development of push" technologies to support future space science and exploration needs through innovative efforts with high risk/high payoff while developing the next generation of innovators through grants and fellowships.



Centennial

Challenges directly engages

nontraditional sources advancing technologies of value to NASA s missions and to the aerospace community. The program offers challenges set up as competitions that award prize money to the individuals or teams that achieve a specified technology challenge



Flight Opportunities

facilitates the progress of space technologies toward flight readiness status through testing in space relevant environments. The program fosters



Small Business Innovation Research (SBIR) and Small



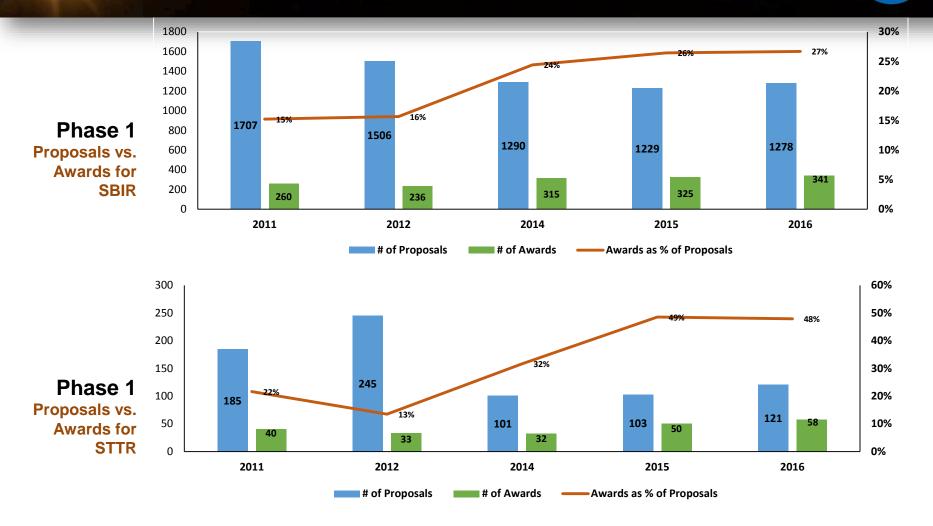


Technology



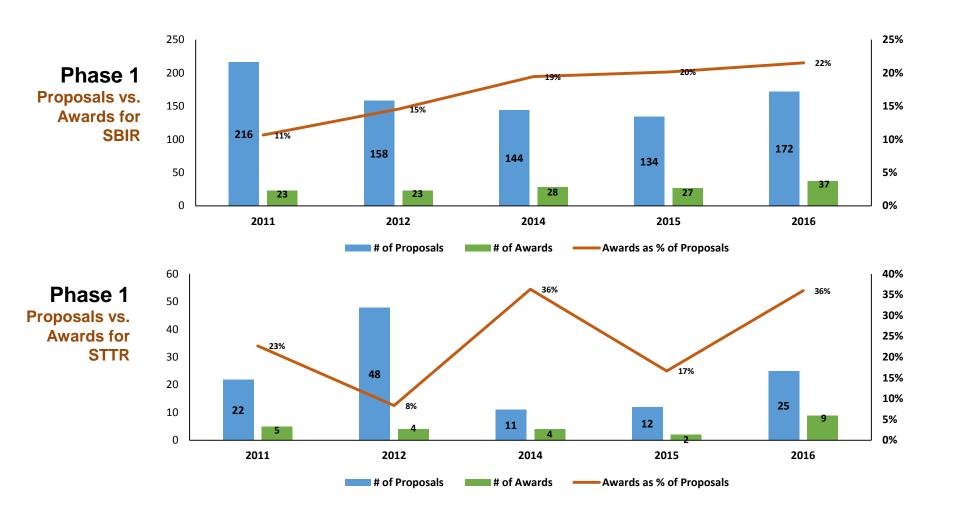
SBIR/STTR Proposals vs. Awards





SBIR/STTR Proposals vs. Awards for Disadvantaged Firms





[2011-Present]

Post Phase II Investment Activities

The table below shows data for Post Phase II Activities related to SBIR/STTR awards from 2011 to present.

This data was maintained by individual centers prior to FY16 and has not been validated. Starting in FY16, all post phase II activities where NASA investments are made will be tracked by the EHB and executed by NSSC. Efforts to validate the existing data will be undertaken in FY16.

		2011	2012	2013	2014	2015	2016	Totals
	Post PII							
NASA	Activity	118	125	96	84	107	15	545
	Funding	\$55,771,534.30	\$48,559,818.90	\$58,794,949.04	\$29,751,600.84	\$68,635,550.10	\$16,235,032.63	\$277,748,485.81
Non-	Post PII							
NASA	Activity	146	176	185	158	89	42	796
INASA	Funding	\$87,370,374.00	\$155,224,410.80	\$126,616,065.40	\$106,248,511.30	\$103,528,799.60	\$21,840,455.15	\$600,828,616.25

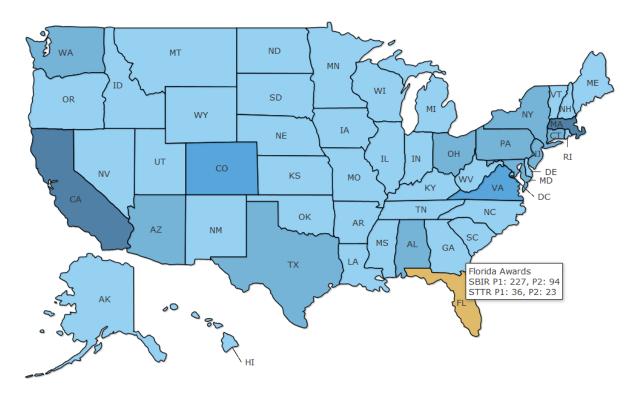
State-Based SBIR/STTR Statistics



Home >> State-Based SBIR/STTR Statistics

State-Based SBIR/STTR Statistics

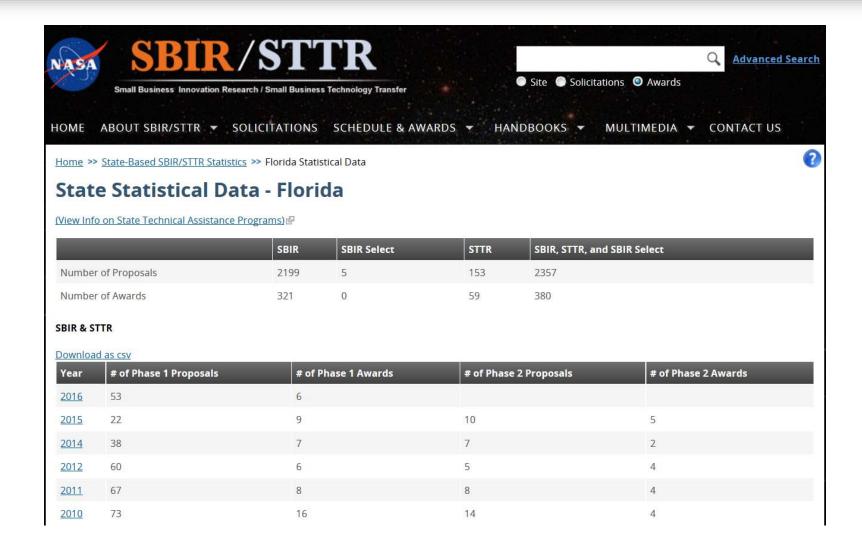
Click on the desired State to retrieve proposal and award statistics for that State.



Select a state to view detailed state based statistics.

State Statistical Data for Florida 🛰 😘

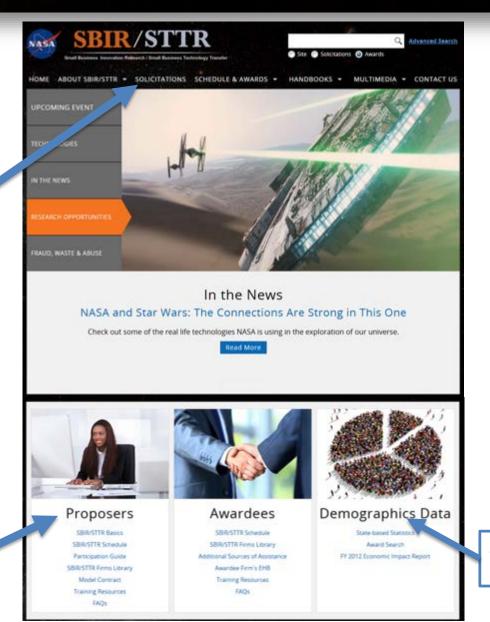




NASA SBIR/STTR Website www.sbir.nasa.gov



Access the PY 2016 Solicitations (Next release date *November 2016)



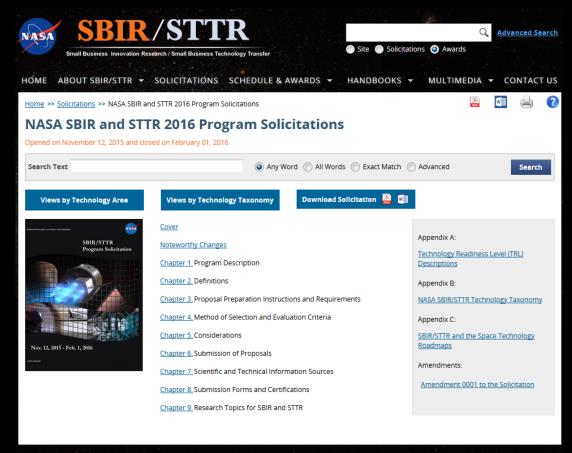
Information for NEW firms available under "Proposers"

SBIR/STTR program analytics

Solicitations



Visit sbir.nasa.gov for prior year solicitations





Curator: <u>Samidha Manu</u>

NASA Official: Mr. Carlos Torrez

Last Updated: 27-Apr-2016

Mentor-Protégé Program



The NASA Mentor-Protégé Program encourages NASA prime contractors to assist eligible protégés in enhancing their capabilities to perform on NASA contracts and subcontracts, fostering the establishment of long-term business relationships between these entities and NASA prime contractors, and increasing the overall number of these entities that receive NASA contract and subcontract awards.

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

Outreach Events http://sbir.nasa.gov/events



Event Name	Dates	Location
NASA SBIR/STTR Subtopic Workshop	September 12-13, 2016	Moffett Field, CA
SCaN/SBIR Commercialization Workshop	September 14, 2016	Ames Research Center, CA
Small Business Association of New England	September 16, 2016	Waltham, MA
HCBU Road Tour for SBIR/STTR and Mentor-Protégé Program	September 27-29, 2016	Tallahassee, FL
MSI Outreach to Navajo Technical University	September 28-30, 2016	Crownpointe, NM
SBA New England Regional Innovation Summit	October 5-6, 2016	Boston, MA
IEEE Women in Engineering (WIE) Conference	October 6-7, 2016	Detroit, MI
KSC Business Opportunities Expo	October 25, 2016	Cape Canaveral, FL



How To Contact Us



- Online: www.sbir.nasa.gov
- NASA Help Desk: 301.937.0888
- Email: sbir@reisystems.com