

Appendix D: SBIR/STTR and the Space Technology Roadmaps

Research and technology topics/subtopics for the SBIR Program are identified annually by Mission Directorates and Center Programs. The Directorates identify high priority research and technology needs for respective programs and projects. The SBIR Program supports a range of technologies defined by a list of topics and subtopics that vary in content within each annual solicitation.

The following table relates the Select SBIR topics and subtopics to the Technology Area Breakdown Structure (TABS) in the Space Technology Roadmaps (STR). The table is organized by the OCT Technology Area (first column), with the related SBIR/STTR topics (third column) and subtopics (fourth column) listed as well. The Aeronautics area is included for completeness, though this is beyond the scope of the STR.

TA	STR Technology Area (TA) Level 1 Description	Select Topic	Select Subtopic Description	Select Subtopic
TA01	Launch Propulsion Systems	Human Exploration and Operations Mission Directorate Select Subtopics	Nano/Micro Satellite Launch Vehicle Technology	E1.02
TA02	In-Space Propulsion Technologies	Human Exploration and Operations Mission Directorate Select Subtopics	High Power Electric Propulsion Systems	E1.01
TA03	Space Power and Energy Storage	N/A	N/A	N/A
TA04	Robotics, Telerobotics and Autonomous Systems	N/A	N/A	N/A
TA05	Communication and Navigation	N/A	N/A	N/A
TA06	Human Health, Life Support and Habitation Systems	N/A	N/A	N/A
TA07	Human Exploration Destination-Systems	Human Exploration and Operations Mission Directorate Select Subtopics	International Space Station Utilization	E1.03
TA08	Science Instruments, Observatories and Sensor Systems	Science Mission Directorate Select Subtopics	Laser Transmitters and Receivers for Targeted Earth Science Measurements	E3.01
			Advanced Technology Telescope for Balloon Mission	E3.02
			Extreme Environments Technology	E3.03
TA09	Entry, Descent and Landing Systems	N/A	N/A	N/A
TA10	Nanotechnology	N/A	N/A	N/A
TA11	Modeling, Simulation, Information Technology and Processing	N/A	N/A	N/A

TA12	Materials, Structures, Mechanical Systems and Manufacturing	N/A	N/A	N/A
TA13	Ground and Launch Systems Processing	N/A	N/A	N/A
TA14	Thermal Management Systems	N/A	N/A	N/A
		Aeronautics Research Mission Directorate Select Subtopics	Air Traffic Management Research and Development	E2.01