NASA SBIR-STTR Technology Taxonomy

Avionics and Astrionics Power and Energy Airport Infrastructure and Safety **Biochemical Conversion** Attitude Determination and Control **Energy Storage** Guidance, Navigation, and Control MHD and Related Conversion On-Board Computing and Data Management **Nuclear Conversion** Pilot Support Systems Photovoltaic Conversion Spaceport Infrastructure and Safety Power Management and Distribution Telemetry, Tracking and Control Renewable Energy **Bio-Technology** Thermodynamic Conversion Air Revitalization and Conditioning Thermoelectric Conversion Biomass Production and Storage Wireless Distribution Biomedical and Life Support Propulsion Biomolecular Sensors Aerobrake Aircraft Engines Sterilization/Pathogen and Microbial Control Beamed Energy Waste Processing and Reclamation Communications Chemical **Electromagnetic Thrusters** Architectures and Networks Autonomous Control and Monitoring **Electrostatic Thrusters** Feed System Components Laser RF Fundamental Propulsion Physics High Energy Propellants (Recombinant Energy & Metallic Cryogenics Fluid Storage and Handling Hydrogen) Launch Assist (Electromagnetic, Hot Gas and Pneumatic) Instrumentation MHD Production Micro Thrusters Education General Public Outreach Monopropellants Nuclear (Adv Fission, Fusion, Anti-Matter, Exotic Nuclear) K-12 Outreach Mission Training Propellant Storage **Electronics** Solar Highly-Reconfigurable **Tethers** Photonics **Robotics** Radiation-Hard/Resistant Electronics Human-Robotic Interfaces Ultra-High Density/Low Power Integrated Robotic Concepts and Systems **Extravehicular Activity** Intelligence Manned-Maneuvering Units Manipulation Portable Life Support Mobility Perception/Sensing Suits Tools Teleoperation Information Sensors and Sources Autonomous Reasoning/Artificial Intelligence Biochemical Computer System Architectures Gravitational Data Acquisition and End-to-End-Management High-Energy Data Input/Output Devices Large Antennas and Telescopes Microwave/Submillimeter Database Development and Interfacing **Expert Systems** Optical Human-Computer Interfaces Particle and Fields Portable Data Acquisition or Analysis Tools Sensor Webs/Distributed Sensors Software Development Environments Substrate Transfer Technology Software Tools for Distributed Analysis and Simulation Structures Airframe Manufacturing Earth-Supplied Resource Utilization Airlocks/Environmental Interfaces In-situ Resource Utilization Controls-Structures Interaction (CSI) Microgravity Erectable Inflatable Materials Kinematic-Deployable Ceramics Launch and Flight Vehicle Composites Computational Materials Modular Interconnects Structural Modeling and Tools Metallics Multifunctional/Smart Materials Tankage Optical & Photonic Materials Thermal Organics/Bio-Materials Ablatives Radiation Shielding Materials Control Instrumentation Semi-Conductors/Solid State Device Materials Cooling Superconductors and Magnetic Reuseable

Tribology Microgravity

Biophysical Utilization

Combustion

Liquid-Liquid Interfaces

Testing Requirements and Architectures Training Concepts and Architectures

Operations Concepts and Requirements Simulation Modeling Environment

Thermal Insulating Materials

Verification and Validation

Testing Facilities