NASA SBIR/STTR Technology Taxonomy

Avionics and Astrionics

Airport Infrastructure and Safety Attitude Determination and Control Guidance, Navigation, and Control

On-Board Computing and Data Management

Pilot Support Systems

Spaceport Infrastructure and Safety Telemetry, Tracking and Control

Bio-Technology

Air Revitalization and Conditioning Biomass Production and Storage Biomedical and Life Support Biomolecular Sensors

Sterilization/Pathogen and Microbial Control

Waste Processing and Reclamation

Communications

Architectures and Networks

Autonomous Control and Monitoring

Laser RF

Cryogenics

Fluid Storage and Handling

Instrumentation Production

Education

General Public Outreach

K-12 Outreach Mission Training

Electronics

Highly-Reconfigurable

Photonics

Radiation-Hard/Resistant Electronics

Ultra-High Density/Low Power

Extravehicular Activity

Manned-Manuvering Units Portable Life Support

Suits Tools

Information

Autonomous Reasoning/Artificial Intelligence

Computer System Architectures

Data Acquisition and End-to-End-Management

Data Input/Output Devices

Database Development and Interfacing

Expert Systems

Human-Computer Interfaces

Portable Data Acquisition or Analysis Tools

Software Development Environments

Software Tools for Distributed Analysis and Simulation

Manufacturing

Earth-Supplied Resource Utilization

In-situ Resource Utilization

Microgravity

Materials

Ceramics

Composites

Computational Materials

Metallics

Multifunctional/Smart Materials Optical & Photonic Materials Organics/Bio-Materials

Radiation Shielding Materials

Semi-Conductors/Solid State Device Materials

Superconductors and Magnetic

. Tribology

Microgravity

Biophysical Utilization

Combustion

Liquid-Liquid Interfaces

Power and Energy

Biochemical Conversion

Energy Storage

MHD and Related Conversion

Nuclear Conversion Photovoltaic Conversion

Power Management and Distribution

Renewable Energy

Thermodynamic Conversion Thermoelectric Conversion

Wireless Distribution

Propulsion

Aerobrake

Aircraft Engines Beamed Energy

Chemical

Electromagnetic Thrusters

Electrostatic Thrusters

Feed System Components

Fundamental Propulsion Physics

High Energy Propellents (Recombinant Energy &

Metallic Hydrogen)

Launch Assist (Electromagnetic, Hot Gas and Pneumatic)

MHD

Micro Thrusters

Monopropellants

Nuclear (Adv Fission, Fusion, Anti-Matter, Exotic Nuclear)

Propellant Storage

Solar

Tethers

Robotics

Human-Robotic Interfaces

Integrated Robotic Concepts and Systems

Intelligence Manipulation

Mobility

Perception/Sensing

Teleoperation .

Sensors and Sources

Biochemical

Gravitational

High-Energy

Large Antennas and Telescopes

Microwave/Submillimeter

Optical

Particle and Fields

Sensor Webs/Distributed Sensors

Substrate Transfer Technology

Structures

Airframe

Airlocks/Environmental Interfaces

Controls-Structures Interaction (CSI)

Erectable

Inflatable

Kinematic-Deployable

Launch and Flight Vehicle

Modular Interconnects

Structural Modeling and Tools

Tankage

Thermal

Ablatives

Control Instrumentation

Cooling

Reuseable

Thermal Insulating Materials

Verification and Validation

Operations Concepts and Requirements

Simulation Modeling Environment

Testing Facilities

Testing Requirements and Architectures

Training Concepts and Architectures