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1. T1.01: Synthetic Biology for Space Exploration

Release Date: 07-18-2011Open Date: 07-18-2011Due Date: 09-08-2011Close Date: 09-08-2011

The field of Synthetic Biology is a rapidly growing area of study that encompasses research ranging from the introduction of incremental function or regulation into existing organisms to the creation of fully synthetic living structures and systems. NASA is interested in harnessing this emerging field to create technological advances for multiple mission focus areas. Topics include biological life ...

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2. T1.02: Commodity Based Technologies

Release Date: 07-18-2011Open Date: 07-18-2011Due Date: 09-08-2011Close Date: 09-08-2011

This subtopic seeks out-of-the-box, innovative, broad-based approaches to address space mission requirements.Desired proposals would enable the commoditization of space mission requirements by utilizing existing commercial technology goods and services to reduce schedule and costs of implementation.Examples:Smart-phones today are able to perform many of the basic capabilities of the spacecraft, having a high speed processor with large memory capacity, a set of sensors such as an accelerometer, rate gyroscopes, magnetometer, global positioning system (GPS).

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3. T2: Atmospheric Flight Research and Technology Demonstration

Release Date: 07-18-2011Open Date: 07-18-2011Due Date: 09-08-2011Close Date: 09-08-2011

This topic solicits innovative aerospace concepts and techniques that would advance aerospace technologies in all flight regimes. NASA's flight research mission is to demonstrate aeronautic and space technologies through flight research and testing. NASA also seeks advance flight test techniques and analysis tools for efficient and timely flight research. The principle areas of interest encompass ...

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4. T2.01: Technologies for Aeronautics Experimental Capabilities

Release Date: 07-18-2011Open Date: 07-18-2011Due Date: 09-08-2011Close Date: 09-08-2011

The emphasis of this subtopic is proving feasibility, developing, and demonstrating technologies for advanced flight research experimentation that matures new methodologies, technologies, and concepts. It seeks advancements that promise significant gains in NASA's flight research capabilities or addresses barriers to measurements, operations, safety, and cost in all flight regimes from low sub-sonic to high supersonic. This subtopic solicits innovative technologies that enhance flight research competencies by advancing capabilities for in-flight experimentation.

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5. T3: Technologies for Space Exploration

Release Date: 07-18-2011Open Date: 07-18-2011Due Date: 09-08-2011Close Date: 09-08-2011

This topic seeks to solicit advanced innovative technologies and systems in space power and propulsion to fulfill our Nation's goal of space exploration. The anticipated technologies should advance the state-of-the-art or feature enabling technologies to allow NASA to meet future exploration goals.

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6. T3.01: Technologies for Space Power and Propulsion

Release Date: 07-18-2011Open Date: 07-18-2011Due Date: 09-08-2011Close Date: 09-08-2011

Development of innovative technologies are sought that will result in durable, long-life, lightweight, high performance space power and in-space propulsion systems to substantially enhance or enable future missions.

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7. T4: Innovative Sensors, Support Subsystems and Detectors for Small Satellite Applications

Release Date: 07-18-2011Open Date: 07-18-2011Due Date: 09-08-2011Close Date: 09-08-2011

This STTR topic solicits advanced technologies for satellites with masses less than approximately 20 kg and volumes less than approximately 10,000 cm3. Needed are components, subsystems, sensors, detectors and instruments that increase the capabilities of very small satellites while meeting the significant constraints imposed by the very limited size and mass of the observatory.

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8. T4.01: Innovative Sensors, Support Subsystems and Detectors for Small Satellite Applications

Release Date: 07-18-2011Open Date: 07-18-2011Due Date: 09-08-2011Close Date: 09-08-2011

As the launch opportunities of very small satellites increase, NASA needs advanced capabilities to be developed in order to increase the viability of world-class scientific and technological applications within smaller constraints. This will allow NASA to use every class of orbiting system to make measurements to improve the scientific understanding of the Earth, the Sun and the cosmos.

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9. T5: Technologies for Compositional Analysis and Mapping

Release Date: 07-18-2011Open Date: 07-18-2011Due Date: 09-08-2011Close Date: 09-08-2011

This topic addresses the need for low mass, low power technologies that support in situ compositional analysis and mapping. Two areas are of particular interest: micro-scale analysis and mapping of the mineralogy, organic compounds, chemistry and elemental composition of planetary materials, related to rock fabrics and textures; and remote mapping of geologic outcrops and features. Such technologi ...

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10. T5.01: Technologies for Planetary Compositional Analysis and Mapping

Release Date: 07-18-2011Open Date: 07-18-2011Due Date: 09-08-2011Close Date: 09-08-2011

This subtopic is focused on developing and demonstrating technologies for both orbital and in situ compositional analysis and mapping that can be proposed to future planetary missions. Technologies that can increase instrument resolution, precision and sensitivity or achieve new and innovative scientific measurements are solicited. For example missions, see (http://science.hq.nasa.gov/missions). For details of the specific requirements see the National Research Council's, Vision and Voyages for Planetary Science in the Decade 2013-2022 (http://solarsystem.nasa.gov/2013decadal/).

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