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1. T1.01: Affordable Nano/Micro Launch Propulsion Stages

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:MSFCParticipating Center(s):LaRC,KSC,GRCAs small satellites have become more capable of performing valuable missions for both government and commercial customers, there has been significant growth in both the quantity and quality of Nano and Micro Satellite missions. Currently these satellites can only be launched affordably as secondary payloads; but the number of these missions has o ...

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2. T1: Launch Propulsion Systems

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Launch Propulsion Systems reflects a staged development of critical technologies that include both pull technologies that are driven by known short- or long-term agency mission milestones, as well as push technologies that generate new performance or mission capabilities over the next 20 to 25 years. While solid and liquid propulsion systems are reaching the theoretical limits of efficienc ...

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3. T11.01: Information Technologies for Intelligent and Adaptive Space Robotics

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:ARCParticipating Center(s):JSC,JPLThe objective of this subtopic is to develop information technologies that enable robots to better support space exploration. Improving robot information technology (algorithms and software) is critical to improving the capability, flexibility, and performance of future missions. In particular, the NASA "Robotics, Tele-Robotics, and Autonomous Systems" ...

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4. T11.02: Computational Simulation and Engineering

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:JPLComputational OptimizationProposals are solicited for developing numerical methods and tools that enable robust continuous and discrete optimization as well as uncertainty quantification for physics based computational models. There are many different optimization methods and implementations of some of these methods are available in commercial and open-source form. These methods typ ...

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5. T11: Modeling, Simulation, Information Technology and Processing

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Modeling, Simulation, Information Technology and Processing consists of four technology subareas, including computing, modeling, simulation, and information processing. NASA s ability to make engineering breakthroughs and scientific discoveries is limited not only by human, robotic, and remotely sensed observation, but also by the ability to transport data and transform the data into scientific a ...

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6. T12.01: Advanced Structural Health Monitoring

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:LaRCParticipating Center(s):JSCThis subtopic seeks new and innovative technologies in structural health monitoring (SHM), integrated vehicle health management (IVHM) systems, their corresponding analysis tools, and smart materials. Advanced structural composites and sensors with the potential to enable or enhance distributed damage detection for aerospace vehicles and spacecraft are so ...

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7. T12.02: High Temperature Materials and Sensors for Propulsion Systems

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:GRCAdvanced materials, structures and sensors are crosscutting technologies which are essential in the design, development and health maintenance/detection needs of components and subsystems that will be needed in future generations of aeronautics and

space propulsion and power systems. Materials will require multiple or tailored functions that are designed to meet specific mission nee ...

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8. T12.03: Advanced Bladder Materials for Inflatable Habitats

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:JSCThis subtopic solicits advanced bladder materials for use in inflatable structures. Inflatable structures are a solution for increasing the volume and decreasing the weight and launch package for habitats, airlocks, and potentially other crewed vessels. Ideal bladder materials are low permeability gas barriers, durable over time, and do not degrade due to effects such as cold flow. ...

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9. T12.04: Experimental and Analytical Technologies for Additive Manufacturing

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:MSFCParticipating Center(s):JSC,LaRC,GRC,ARCAdditive manufacturing is becoming a leading method for reducing costs, increasing quality, and shortening schedules for production of innovative parts and component that were previously not possible using more traditional methods of manufacturing. In the past decade, methods such as selective laser melting (SLM) have emerged as the leading ...

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10. T12: Materials, Structures, Mechanical Systems and Manufacturing

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Materials, Structures, Mechanical Systems, and Manufacturing This topic is extremely broad, covering five technology areas: materials, structures, mechanical systems, manufacturing, and cross-cutting technologies. The topic consists of enabling core disciplines and encompasses fundamental new capabilities that directly impact the increasingly stringent demands of NASA science and exploration missi ...

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