

Kennedy Space Center (KSC)

Agency Introduction: The FY 2012 budget request for NASA is \$18.7 billion, the FY 2010 enacted level. The NASA Authorization Act of 2010 has provided a clear direction for NASA, and the skilled workforce at NASA Centers is critical to the success of the Act's important objectives.

Highlights of KSC's FY 2012 activities: The FY 2012 budget proposes \$2,053 million in spending at KSC.

- \$931 million towards Exploration to facilitate the development of United States commercial crew space transportation capability with the goal of achieving safe, reliable, and cost effective access to and from low Earth orbit and the International Space Station. The Center will provide support to award multiple competitive, fixed-price, milestone-based agreements for the development, testing, and demonstration of commercial crew systems. In addition, the Center will develop ground operations in support of SLS.
- \$352 million Space Operations: Support plans for a 21st Century Launch Complex to modernize and transform capabilities and infrastructure for more cost-effective operations. Provides launch services to the Science Missions and the Commercial Crew and Cargo providers.
- \$281 million for Science, for purchase of commercial launch services for robotic spacecraft.
- \$29 million in Space Technology for a strategically-guided project aligned with the In-Situ Resource Utilization expertise of the Center, the Kennedy Innovation Fund, and disbursement of select SBIR/STTR awards.
- \$4 million to further NASA's Science, Technology, Engineering, and Mathematics (STEM) education efforts.
- \$457 million for Institutional requirements for the Center's operations in support of its mission requirements. This funding includes: \$410 million for Cross-Agency Support; \$47 million for Construction and Environmental Compliance Restoration for minor revitalization and construction projects to repair and modernize center infrastructure to reduce risk of mission disruption due to facility failures. Also includes revitalizing water and waste water systems at the Center and replaces aging systems to correct water quality problems.

NASA John F. Kennedy Space Center (KSC) is geographically located along the Florida east central coast, 50 miles east of Orlando and just north of Port Canaveral. Kennedy remains a leader of cutting-edge research and development in areas of physics, chemistry, technology, prototype designing, engineering, integration and testing, remediation and ecosystem science, and in-situ resource utilization. Kennedy is responsible for NASA's space launch operations and spaceport and range technologies. Its overarching goal is to safely manage, develop, integrate, and sustain space systems through partnerships that enable innovative, diverse access to space and inspire the Nation's future explorers.

Kennedy has 40 years of experience in the design, development and operation of payload/spacecraft processing and launch systems used to support human spaceflight and robotic missions. With this expertise, Kennedy has performed ground processing and launch operations for all United States human space flight missions including the Apollo, Skylab and Space Shuttle Programs.

The 21st Century Space Launch Complex Program at KSC is working to modernize and increase the efficiency of the Florida launch range facilities. Based on understanding of the evolving requirements from the users at KSC, the program is developing a cost-effective ground infrastructure plan and potential ground investment activities to improve KSC launch operations for future and current non-NASA users of the range. Users and programs supported include NASA space exploration and related test flights, with a

focus on the new space launch system, commercial flights in support of Space Station, and expendable launch vehicles in support of NASA science payloads and robotic precursor missions.

Space Technology efforts include leading the In-Situ Resource Utilization project element, implementation of the Kennedy Innovation Fund, and continuing to support the Small Business Innovation Research, Small Business Technology Transfer, and the Office of the Chief Technologist's Partnerships Innovation and Commercial Space and Strategic Integration activities.

The Center recognizes the significant, yet fragile nature of co-existing with the Merritt Island National Wildlife Refuge. As a result, Kennedy's environmental and energy programs use technologies to conserve and protect local and global resources. Two examples at Kennedy are: NASA's first, large-scale, 11-megawatt solar power generation facility that produces about 1 percent of the Center's energy; and a new propellants facility that qualifies for the U.S. Green Building Council's Leadership in Environmental and Energy Design (LEED) Platinum status, which is the highest of green building certifications. The facility produces enough energy on-site from renewable sources to offset what it requires to operate.

Economic Impact:

NASA Kennedy FY 2012 budget:	\$2,053 million
NASA Kennedy FY 2012 civil servant workforce (FTE estimate)	2,095
NASA Center Contracts/Grants Obligated (FY 2010)	\$1,077 million

(Obligation data from the Federal Procurement Data System)

Current impact statement(s) to state, region:

Kennedy remains, by far, the major economic driver in Brevard County and a major contributor to the economic health of the state of Florida. Annual economic assessments have been conducted for several years. The most recent report (FY 2010) concludes that NASA and Kennedy activities across Florida result in more than 1,600 in-state contracts, contributing more than \$1.8 billion in wages and purchases to the state economy. Economic models have estimated that both this direct spending, as well as the subsequent indirect income and job creation, results in a \$4 billion total economic impact to Florida. This includes the production of over 33,000 jobs, \$2 billion in income, and more than \$400 million in federal, state and local taxes. For each KSC job, an additional 1.25 jobs are created in the secondary market throughout the state. NASA/Kennedy and Florida have a longstanding, demonstrated economic interdependence.