



The Company

Boeing Houston Operations has provided technical and engineering support services to NASA's Johnson Space Center (JSC) since the mid-1960's. Employing 2,000 people, this operating unit of Boeing Space and Communications conducts operations at four other NASA centers - Goddard Space Flight Center; Marshall Space Flight Center; Kennedy Space Center, and Stennis Space Center, as well as other locations throughout the country.

For 30 years Boeing engineers have provided technical support to NASA flight crews and controllers for the Mercury, Gemini, Apollo, Skylab and Apollo/Soyuz programs. Boeing is responsible for providing the Space Shuttle engineering and operations support required for the unique, human space flight environment of the world's only reusable space transportation system and for the world's most reliable launch vehicle.



Boeing is also NASA's prime contractor to design, develop, manufacture and assemble the International Space Station (ISS). Boeing leads the U.S. industry team for this international cooperative effort that includes 16 nations working together toward the successful assembly and integration of the ISS. The Space Station is the largest international science and technology venture in history. When completed, the ISS will permit up to seven crew members to live in low-Earth orbit for extended periods and provide access to a highly sophisticated, space-based research facility for advanced technology development.

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The future of the ISS program lies in the operation and utilization of the system -- with a focus on developing the benefits of incorporating commercial investments based on potential new business applications. Boeing intends to play a key role in expanding this concept into new commercial products.

The Boeing Company, headquartered in Seattle, is the largest aerospace company in the world and the United States' leading exporter. It is the world's largest manufacturer of commercial jetliners and military aircraft, and the largest NASA contractor. The company's capabilities in aerospace also include rotorcraft, electronic and defense systems, missiles, rocket engines, launch vehicles, and advanced information and communication systems. The global reach of the company includes customers in 145 countries, employees in more than 60 countries and operations in 26 states. Worldwide, Boeing and its subsidiaries employ more than 198,000 people - with major operations in the Seattle-Puget Sound area of Washington state; Southern California; Wichita, Kan.; and St. Louis, Mo. Boeing is organized into six major units: Commercial Airplanes, Space and Communications, Military Aircraft and Missiles, Shared Services, Air Traffic Management, Connexion by BoeingSM and Boeing Capital Corporation.

Capabilities Overview

System Engineering and Integration/Project Management

Mission needs and conceptual studies; design and development; fabrication, integration, test and evaluation; procurement; operations and sustaining engineering; risk management; cost and performance management.

Engineering

Thermal, structural, guidance, navigation and control, flight mechanics, mechanical CAD, automation and robotics; onboard and ground control center software; decision support tools; high fidelity simulations; advanced planning and scheduling systems.

Information Systems/Software Development

Requirements definition; design and implementation; requirements testing and analysis; configuration control; user training; data base management systems; graphical user interfaces.

Mission Planning and Analysis

Ascent, ascent-abort, on-orbit, rendezvous, proximity operations, descent, entry, interplanetary, payload flight design and integration; flight planning and profile design; performance analysis; dispersion analysis.

Mission Operations

Operations planning; human space flight operations; satellite operations; flight techniques and procedures.

Light Manufacturing

Space-rated hardware design and fabrication; training mockups; light weight composites

