

Space Systems

Solutions for demanding space environments



Oceaneering Space Systems (OSS), a business unit of Oceaneering International, Inc. headquartered near Johnson Space Center (JSC) in Houston, focuses on developing, integrating, and applying both new and established technologies to support the challenges of working in space and other harsh environments.

A team of more than 200 professionals designs and delivers turnkey, highly-engineered products. Oceaneering engineering personnel have NASA signature authority in the areas of Quality, Stress, Materials and Processes, as well as Project Authority. Space Systems is ISO 9001:2015 and AS9100D compliant.

Robotics and Automation

Oceaneering creates custom automated and remotely controlled systems for NASA, the U.S. Department of Defense (DoD), the biotechnology industry, and the oil and gas industry.

Products include:

- » robot arms, embedded controllers, displays, software control systems, telescience systems, and space station robotic end effectors and interfaces
- » advanced humanoid robots
- » robotic manipulators for 3D printing in space
- » robotic tool changer for DARPA's Robotic Servicing of Geosynchronous Satellites program.



Human Space Flight

Oceaneering is a world leader in designing, manufacturing, testing, and maintaining equipment for human space flight.

Products and services include:

- » development and maintenance of tools, cargo, and safety systems to support spacewalking astronauts
- » space experiment hardware for use inside and outside of spacecraft
- » space suit systems for EVA (spacewalks) and for astronaut safety during launch, landing and spacecraft recovery
- » development of the crew module uprighting system (CMUS) for Lockheed, which ensures NASA's Orion capsule maintains an upright orientation after ocean splashdown.

Oceaneering is part of the astronaut training team for extravehicular activity (EVA) in NASA's Neutral Buoyancy Laboratory (NBL) at JSC.

Our services include:

- » providing diver support for suited astronauts training underwater
- » providing the personnel required to produce and/or maintain mockups, critical systems, facility configuration, and on-site health and safety.

Thermal and Military Systems

Oceaneering is one of the premier developers of thermal protection systems (TPS) for launch and reentry vehicles. Our customers include NASA, the DoD, NASA and DoD contractors, and commercial launch vehicle providers. We provide customers with:

- » engineered solutions for extremely high-temperature applications for rocket motor/launch vehicle integration and spacecraft reentry applications
- » products including ablatives, ceramic tile, ceramic blankets, carbon fiber preforms, metallic thermal protection systems, thermal seals, and multi-layer insulation.

■ For more information contact visit us at oceaneering.com/space-systems

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