

Space Systems

Solutions for demanding space environments



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

A team of more than 200 professionals designs and delivers creative turnkey products and solutions for terrestrial, orbital, and planetary applications. Oceaneering subject matter experts have NASA signature authority in the areas of Quality, Stress, as well as Materials and Processes. OSS is ISO 9001:2015 and AS9100D certified.

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 and end effectors, embedded controllers with software control systems and user interfaces/displays, and telescience systems
- » General Oceaneering Latching Device (GOLD) with mechanical, power, and data interfaces for external extravehicular science payloads
- » robotic tool changer for the Defense Advanced Research Project Agency's (DARPA) Robotic Servicing of Geosynchronous Satellites program
- » computer vision systems for autonomous operations

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, aerospace and defense contractors, and commercial launch vehicle providers.

Products include:

- » engineered thermal protection solutions for extremely high temperature rocket motor plume heating and spacecraft reentry applications
- » thermal curtains, thermal blankets, ablatives, ceramic tile, carbon fiber preforms, metallic thermal protection systems, thermal seals, and multilayer insulation

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 extravehicular activity (EVA)
- » crew facilities and equipment for living and working inside and outside of a spacecraft
- » spacesuit systems to protect astronauts as they perform spacewalks and future lunar surface activities
- » development of the Crew Module Uprighting System (CMUS) for Lockheed Martin, which ensures NASA's Orion capsule maintains an upright orientation after ocean splashdown
- » life support systems for water reclamation and air revitalization

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

We provide:

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

■ For more information visit us at oceaneering.com/oss