

Advancing Human Exploration



Axiom Space, a human space exploration company, is **building the next-generation spacesuit** – the Axiom Extravehicular Mobility Unit (AxEMU) – for NASA’s Artemis campaign. A set of increasingly difficult missions leading humanity back to the lunar surface for the first time in more than 50 years and building the foundation for future settlement of the Moon.

The AxEMU’s innovative, single-architecture design provides astronauts with advanced capabilities, guided by function where safety is paramount. This new spacesuit will also enable spacewalks in low-Earth orbit (LEO) on the International Space Station and Axiom Station, the commercial successor to the orbiting laboratory. As the sole next-gen spacesuit provider for NASA, Axiom Space delivers commercially developed human systems needed to access, live, and work in microgravity as well as on and around the Moon.



Accommodates Wide Array of Humans



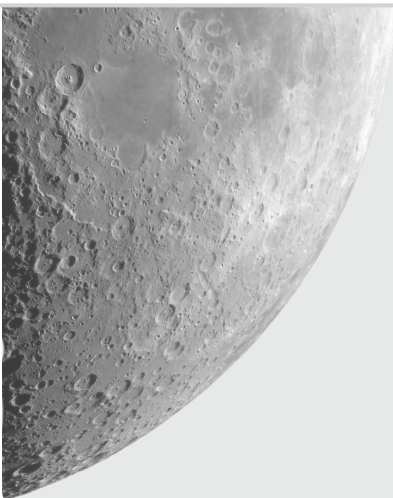
Advanced Mobility and Flexibility



Innovative Commercial Partnerships

Sustains Eight-Hour Operations

Critical System Redundancy



NASA’s Artemis campaign returns humans to the Moon through increasingly difficult missions that aim to explore the lunar surface for scientific discovery and technology advancement, while building foundational skills for living and working on another world in preparation for the first crewed missions to Mars.

- ARTEMIS I
Uncrewed test flight of the Space Launch System and Orion spacecraft around the Moon
- ARTEMIS II
Crewed test flight sending four astronauts on an approximate 10-day mission around the Moon
- ARTEMIS III
Crewed flight where the AxEMU will be tested alongside partner lunar landers in LEO
- ARTEMIS IV
Establishes long-term lunar exploration presence and where history-setting astronauts will utilize the Axiom Space spacesuit to explore the lunar South Pole

Helmet & Extravehicular Visor Assembly

Helmet mounted multi-range lighting and HD camera

- A** Performance engineered coated visor for optimized visibility and safety
IN COLLABORATION WITH OAKLEY
- Endurance athlete-based in-suit nutrition
IN COLLABORATION WITH GU ENERGY LABS

Hard Upper Torso

Anthropometric sizing accommodates wide range of humans

- B** Redundant safety systems
- Biometric Monitoring
- Advanced crew interfaces
 - DISPLAY & CONTROL MODULE
 - EVA TOOL CONNECTIONS

Lower Torso Assembly

- C** Adjustable sizing for greater flexibility
- Textiles engineered for large range of motion

Environmental Protection Garment

- D** Outermost layer composed of advanced textiles and complex stitching, designed
IN COLLABORATION WITH PRADA

Portable Life Support System

Advanced 4G/LTE connectivity

IN COLLABORATION WITH NOKIA

- E** Variable suit pressure
- Regenerable CO2 scrubbing system
- Maintainable on mission
- Modular, evolvable design

Gloves

- F** Optimized for functionality and fitted to crew
- Integrated electrostatic discharge protection

Boots

- G** Engineered to withstand lunar terrain and temperatures

