



# Unleashing the Next Generation of Commercial Space Stations

Joint Venture &  
Strategic Partners

Starlab Space is a U.S.-led, global joint venture and network of partners that is ensuring a continued human presence in LEO and a seamless transition from the ISS into the next era of human spaceflight.

Designed around the needs of researchers, commercial industries, and government agencies, the AI-enabled Starlab space station delivers the capabilities that a growing international customer base requires. Starlab is advancing scientific discovery, enabling new commercial applications, and supporting national space exploration priorities.





## Proven Expertise for the Commercial Era

Launching on a single flight via SpaceX's Starship vehicle, Starlab will be fully outfitted to serve a diverse and growing customer base, from biopharmaceutical and materials researchers to national space and defense agencies.

Built by the team behind two decades of ISS operations and developed in partnership with NASA, Starlab brings proven human spaceflight expertise directly to the commercial market. From payload integration and advanced robotics to daily mission operations, Starlab is designed to meet the demands of today's customers and grow with the commercial space economy for decades to come.

### 1 METALLIC HABITAT

Height: 17m tall

Width: 7.7m diameter

Crew Capacity:  
4 continuous  
8 during handover

Pressurized Volume:  
~400m<sup>3</sup>

Spacious crew quarters  
and laboratory with  
100% of the ISS payload  
capacity

Regenerative  
Environmental Control  
& Life Support System  
(ECLSS)

### 2 LARGE WINDOWS

Provide an expansive view  
of the Earth and external  
environment for the crew

Environmental control  
for managing light,  
temperature, and visibility

### 3 DOCKING PORTS (3)

Support crew rotation,  
cargo delivery, and  
visiting vehicles without  
mission conflicts

### 4 POWER & PROPULSION

35kW continuous power,  
thermal heat rejection,  
and station propulsion

### 5 EXTERNAL PAYLOAD PLATFORMS

Two platforms support  
nine payloads each,  
covering all orbital views

Robotic installation via  
MDA SKYMAKER™ and  
airlock systems

### 6 SCIENCE AIRLOCK

Large science airlock  
with slide table for  
interior/exterior  
transfer of payloads

### 7 ROBOTIC ARM

MDA SKYMAKER™  
transfers unpressurized  
cargo and payloads with  
visiting vehicles and  
provides maintenance  
and observation  
capabilities

