Who Builds Aegis Station?

A project as large and complex as Aegis Station isn't the work of a single company or even a single sector — it's the result of a coordinated effort across aerospace, logistics, manufacturing, robotics, and environmental systems. Like the ISS before it, Aegis requires collaboration between government, private industry, and specialized contractors.

But unlike the ISS, Aegis Station is designed to scale: built for mass, shielded for permanence, and engineered for long-duration habitation at artificial gravity.

Here's a breakdown of who builds what — and where our role fits in.

Primary Structure and Assembly

Industry: Aerospace, Heavy Structures
Contractors: Boeing, Northrop Grumman, Thales Alenia Space, Sierra Space
These firms specialize in space-rated pressure vessels, habitat modules, and structural frames. Aegis Station's rotating rings and central hub require rigid, precisely fabricated components designed to withstand long-term spin and internal pressurization.

Water Shielding and Logistics

Industry: ISRU Systems, Cryogenic Storage, Orbital Logistics
Contractors: Blue Origin, Intuitive Machines, Air Liquide, Praxair, Linde
Shielding Aegis Station with millions of tons of lunar-derived water calls for cryo-fluid management, tank cartridge systems, and a complete Earth–Moon logistics chain. These firms bring relevant capabilities from propellant storage, lander development, and industrial fluid handling.

Launch and Transport

Industry: Launch Services
Contractors: SpaceX, ULA, Blue Origin, Rocket Lab
Station hardware, shielding water, and crew must all be delivered to orbit. Aegis Station is launch-platform agnostic but requires sustained high-mass lift capacity — with SpaceX and Starship offering current throughput leadership.

On-Orbit Robotics and Assembly

Industry: Robotic Servicing, Space Construction
Contractors: Maxar, Redwire, GITAI

Precision assembly of rotating structures, maintenance of shield systems, and deployment of tank cartridges call for robotic systems capable of operating autonomously in orbit. Robotic partners support inspection, logistics, and infrastructure growth.

Environmental and Life Support Systems

Industry: ECLSS, Thermal and Filtration Systems
Contractors: Paragon SDC, Collins Aerospace, NASA JSC
Each Aegis ring includes triple-redundant life support systems. These partners bring the hardware and operational experience needed to sustain human life under artificial gravity in deep space conditions.

Interior Outfitting and Human Systems

Industry: Aerospace Interiors, Human Factors
Contractors: Axiom Space, Collins Aerospace
From crew quarters to laboratories, the rings must support real human activity. Interior buildout includes gravity-aligned furnishings, modular systems, and large-volume pressurized spaces.

Software, Navigation, and Control

Industry: Avionics, Autonomy, Flight Control
Contractors: Honeywell, Raytheon, BAE, NASA Ames
Aegis Station includes advanced guidance, navigation, and control systems for spin rate management, inertial balance, and docking coordination. Software integration spans the entire station and logistics fleet.

Our Role: Aegis Station Infrastructure LLC

As the principal architect and IP holder, we don't fabricate components — we define the system. We provide:

- A complete orbital architecture
- Shielding design and mass distribution models
- Logistics concepts (including cartridge-based fill systems)
- Supporting vehicles: shuttle, rover, tanker fleet
- Feasibility frameworks and outreach documentation

Our role is to **license**, **coordinate**, and **partner** — not to compete with hardware contractors. We define the "why" and "how," then work with industry to deliver the “what.”

A Platform Built to Be Built

Aegis Station is not a sci-fi dream — it’s an industrial-scale system grounded in current technologies and built to leverage existing capabilities. Each piece can be contracted, launched, and assembled using real-world infrastructure.

What we need now is coordination — and the will to build it.