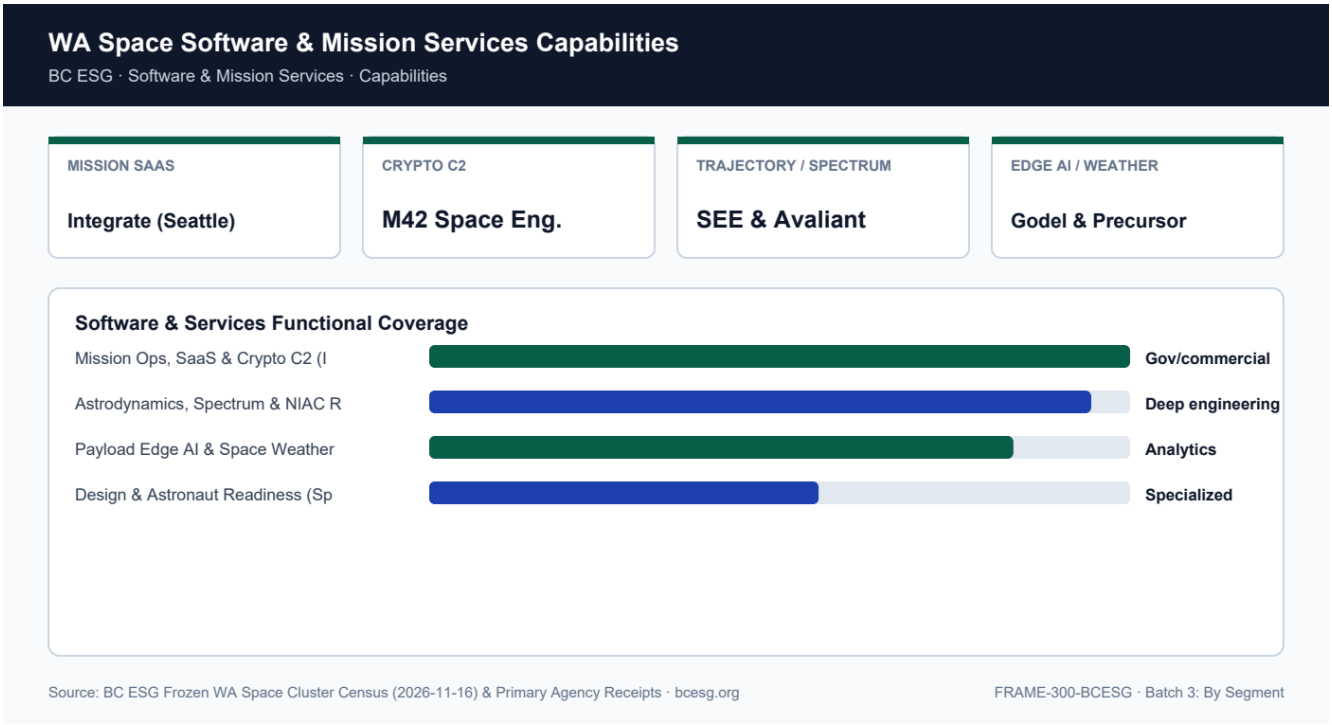
Astrodynamics, Spectrum Engineering, Edge AI & Mission SaaS in WA

Published: November 16, 2026 · Canonical URL: https://bcesg.org/wa-space-software-mission-services-capabilities/

Verification & Scope Baseline: Low physical plant footprint, high technical specialization across mission SaaS, crypto C2, payload AI, astrodynamics, space weather, and FCC/ITU spectrum engineering.



Domain	Operators	Core Deliverable
Mission SaaS & Crypto C2	Integrate, M42 Space Engineering	Program management, CUI/ITAR workflows, crypto C2
Payload AI & Space Weather	Godel Space, Precursor SPC	Onboard inference, solar/geomagnetic forecasting
Astrodynamics, Spectrum & R&D	SEE, Avaliant, Planet Enterprises	Trajectories, FCC/ITU filings, NASA NIAC concepts
Design & Crew Readiness	The Space Age, Orbite	Space architecture design & astronaut training

Software-Defined Mission Layer Without Heavy Factory Overhead

Unlike hardware builders, Washington's software and mission-services firms operate lean engineering offices across Seattle, Bellevue, Friday Harbor, and Gig Harbor. Integrate builds mission and hardware-management SaaS; M42 Space Engineering builds cryptographic trust and C2 for national-security space; Godel Space builds payload edge AI.

On the mission-engineering side, Space Exploration Engineering (SEE) executes trajectory design and astrodynamics, Avaliant handles constellation FCC/ITU spectrum engineering and LDPC, Precursor SPC models space weather, Planet Enterprises conducts NASA NIAC mission R&D, and The Space Age / Orbite provide design and readiness services.

Verified Primary Sources & Internal Bridges

- Alliance Velocity Space City: https://www.alliancevelocity.com/space-city
- CISA SBOM Framework: https://www.cisa.gov/sbom