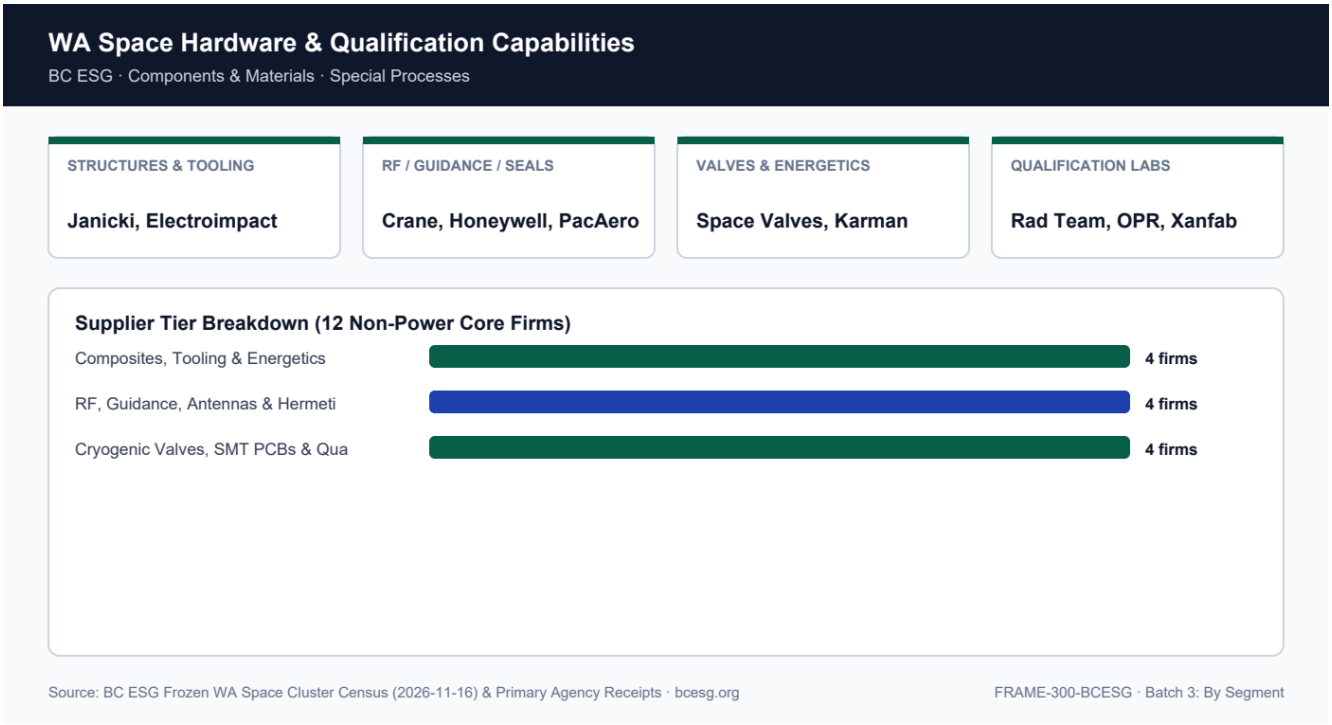
Valves, Hermetic Seals, Composites, AFP Robotics & Radiation Testing in WA

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https://bcesg.org/wa-space-components-materials-special-processes/

Verification & Scope Baseline: Spanning Sedro-Woolley composites (Janicki), Mukilteo AFP/energetics (Electroimpact, Karman), Lynnwood RF/power (Crane), and Tukwila/Everett qualification labs.



Capability	Operators	Cities	Role in Value Chain
Composites & AFP Tooling	Janicki, Electroimpact, Sienna	Sedro-Woolley, Mukilteo, Woodinville	Autoclave structures, AFP robots, materials
Avionics, RF & Hermetics	Crane, Honeywell, PacAero, Kymeta, Xanfab	Lynnwood, Redmond, Wenatchee, SeaTac	IMUs, RF passives, hermetic seals, SMT PCBs
Fluid & Energetics	Space Valves, Karman (Systima)	Puyallup, Mukilteo	Cryogenic valves, pyrotechnics, structures
Environmental Testing	The Radiation Team, Off Planet Research	Tukwila/Renton, Everett	Radiation hardening & lunar regolith simulants

Tier-2 Hardware & Qualification Backbone

Washington's prime launch and satellite builders rely on an in-state Tier-2 backbone: Janicki Industries (Sedro-Woolley) and Electroimpact (Mukilteo) supply large-scale composite structures and automated fiber placement (AFP) robotics; Karman Space & Defense (Mukilteo) supplies structures and energetics; and Space Valves (Puyallup) builds AS9100 cryogenic valves.

In electronics and qualification, Crane Aerospace (Lynnwood), Honeywell Aerospace (Redmond), PacAero (Wenatchee/Sequim), Kymeta (Redmond), and Xanfab (SeaTac) cover RF, IMUs, hermetic seals, antennas, and space

PCBs—backed by The Radiation Team and Off Planet Research.

Verified Primary Sources & Internal Bridges

- SAE AS9100D Standard: https://www.sae.org/standards/content/as9100d/
- PRI Nadcap Program: https://p-r-i.org/nadcap/
- Electroimpact: https://www.electroimpact.com/company/about