



Open Position: Senior Aerospace Engineer, Parabilis Space Technologies

ABOUT PARABILIS

At Parabilis, we design, develop, test, and fly affordable in-space propulsion and small satellite solutions. Parabilis is one of the few companies in the world that has both propulsion and satellite capabilities under one roof.

We are leveraging the space heritage of our team to build an exciting and growing company that will meet the current and future needs of our customers and provide a challenging and fun place for our employees to pursue their dreams. Our current programs include an upper stage for a commercial small launch vehicle, a classified space mission for the DoD, and propulsion for atmospheric hypersonic test flights.

Parabilis Space Technologies, Inc. is located in San Marcos, CA and operates a propulsion test facility in Lakeside, CA.

JOB RESPONSIBILITIES

If you are selected for this position, your responsibilities will involve designing space-related systems, but you'll also have extensive opportunities to contribute to early-stage concept development as well as building, testing, and troubleshooting the systems and components you design as they move through the value chain.

- Designing and developing propulsion and spacecraft systems; generating detailed drawings; generating and maintaining documents and specifications
- Using appropriate engineering tools (e.g., Matlab) to perform common analyses
- Supporting cold flow and hot fire propulsion tests
- Developing cold flow and hot fire propulsion test plans; developing flight qualification plans
- Conducting proof pressure testing
- Troubleshooting anomalies that arise during build and test; conducting customer analyses and providing customer support as necessary
- Creating and writing clear procedures (including assembly procedures); conducting process hazard analyses (PHAs)
- Contributing to business development work (B&P) as needed
- Contributing to development of guidance, navigation, and control systems where possible

MINIMUM REQUIREMENTS

- Bachelor's degree in mechanical or aerospace engineering
- Knowledge of propulsion and spacecraft systems
- Approximately 2-5 years of experience designing/developing fluid systems (or components that are inherent to fluid systems) such as valves, pumps, tanks, and regulators.



- Intimate familiarity with at least one common engineering design tool that includes knowledge of options, shortcuts, map keys, etc. CREO/ProE knowledge and experience is strongly preferred.
- Ability to create releasable drawings based on a concept
- Ability to come up with non-obvious design solutions
- Ability to write clearly, precisely, and concisely
- Familiarity with and ability to write clear processes/procedures; ability to identify when something is or isn't a process deviation; ability to conduct process hazard analysis
- Ability to come up with solutions for common problems and roadblocks
- Ability to run common aerospace analyses and interpret/explain common data patterns
- Working knowledge of fluid system instrumentation and control components (e.g. pressure transducers, thermocouples, resistance temperature detectors, relays, solenoid valves, etc.)
- U.S. citizenship/US person

DESIRABLE (one or more of these is definitely “nice to have”)

- Basic knowledge of Computational Fluid Dynamics, and some experience with Star CCM software and meshing; ability to run basic CFD analyses and interpret/explain common data patterns
- Propulsion test experience
- Basic electrical engineering knowledge or GNC knowledge
- Basic knowledge of one or more programming languages (e.g., C or C++)
- Mill, lathe and other machining experience
- Ability to travel periodically

HOW TO APPLY:

Send updated resume and a cover letter to: jobs@parabilis-space.com

OTHER

As a small company, Parabilis relies on the capabilities and good judgement of its employees. We prefer to unleash the talent of our employees rather than trying to control it with hierarchy or excessive bureaucracy. Subsequently, the person selected for this position will be trusted and empowered to act in the best interest of Parabilis and its customers. Every person at Parabilis contributes outside of their primary area of technical expertise (that’s how learning occurs) and helps to propose/win new business for our growing company. If you like variety, this job will be fulfilling and fun.

Parabilis is an Equal Opportunity Employer; employment with Parabilis is governed on the basis of merit, competence and qualifications and will not be influenced in any manner by race, color, religion, gender, national origin/ethnicity, veteran status, disability status, age, sexual orientation, gender identity, marital status, mental or physical disability.