

Manufacturing Engineer (Propulsion Components)

SpaceX was founded under the belief that a future where humanity is out exploring the stars is fundamentally more exciting than one where we are not. Today SpaceX is actively developing the technologies to make this possible, with the ultimate goal of enabling human life on Mars.

MANUFACTURING ENGINEER (PROPULSION COMPONENTS)

As a Manufacturing Engineer at SpaceX you will have the opportunity to utilize your knowledge, experience, and creativity to develop novel solutions at the cutting edge of space technology. You will work on launch vehicles and spacecraft that will deliver satellites into earth orbit, ferry humans to and from the international space station, and ultimately extend humanity's reach beyond the earth and moon. You will own the relationship between our development and production teams. You will provide input into the design and development of new and existing hardware and take a lead role in manufacturing and integration on our current and next generation vehicles.

RESPONSIBILITIES:

- Lead the production, assembly and testing of propulsion/environmental and thermal control system components for the Dragon vehicle under the CRS and CCiCap programs or the Falcon 9 boost and stage systems.

- Create and maintain build schedules that list all discrete fabrication, assembly, and test tasks. Ensure that all components are fabricated, assembled, and/or purchased to facilitate the build schedules.

- Resolve and analyze manufacturing and test discrepancies, while interfacing with the quality team (resolving issues for design, fabrication, and assembly).

- Support component level testing such as proof and leak, fluid flow and functional checkouts.

- Work closely with development and design engineers, internal machine shops and external vendors to make parts that are designed for manufacturability.

BASIC QUALIFICATIONS:

- Bachelor's degree in aerospace, mechanical, welding or materials engineering.

- 1+ years of experience working with fluid system components and instruments such as valves, regulators, burst disks, pressure transducers or resistance temperature devices.

PREFERRED SKILLS AND EXPERIENCE:

- Master's degree in aerospace, mechanical, welding or materials engineering.

- Experience with spacecraft or aircraft propulsion/environmental control systems.

- Experience with fluid or gas handling systems.

- Knowledge of principles of compressible and incompressible flow, thermodynamics, thermochemistry, mechanics, materials and electrical circuits.

- Experience with instrumentation and data acquisition, including familiarity with LabVIEW software.

ADDITIONAL REQUIREMENTS:

- Must be available to work long hours and weekends as needed.

ITAR REQUIREMENTS:

- To conform to U.S. Government space technology export regulations, applicant must be a U.S. citizen, lawful permanent resident of the U.S., protected individual as defined by 8 U.S.C. 1324b(a)(3), or eligible to obtain the required authorizations from the U.S. Department of State. Learn more about ITAR [here](#).

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Applicants wishing to view a copy of SpaceX's Affirmative Action Plan for veterans and individuals with disabilities, or applicants requiring reasonable accommodation to the application/interview process should notify the Human Resources Department at (310) 363-6000.