

# Design Engineer - Space



## ? What Design Engineers for Space Do

Career-development position within the engineering field. Routine engineering tasks are performed as directed by the Engineering Manager. The incumbent in this position will contribute to specific objectives and outcomes. This position is subject to moderate supervision with some latitude for independent judgment. Will have some limited problem-solving responsibility while working under defined guidelines.

### Essential Duties

- Utilize established engineering principles in the design and evaluation of mechanical components
- Design, create, and repair mechanical components or sub-assemblies using applied mechanical engineering principles, including solid and fluid mechanics, thermodynamics, and heat transfer
- Create prototypes and conduct testing to ensure design performs as expected
- Work with fabrication and manufacturing departments to ensure final design is properly executed in the creation of mechanical products
- Create and interpret blueprints, technical drawings, and schematics
- Use drafting tools or computer-aided design (CAD)/drafting equipment and software in design work
- May manage project schedules and budgets
- May evaluate the cost and maintenance requirements of design



### Education & Qualifications

- Must be able to access shared database with government programs (U.S. Citizen or Permanent Resident of the U.S.)
- Bachelor of Science Degree in Engineering, or related field of study; 4-5 years of experience performing similar tasks is preferred
- Proficiency with word processing software; spreadsheet software; intermediate CAD & basic 3D modeling
- Demonstrated, strong communication skills, both verbal and written
- Demonstrated ability to collaborate well with peers and cross-functional teams and external customers



**Get a Head Start....with these classes in middle and high school:**

Algebra

Calculus

Physics

Chemistry

Computer Science

Physical Science