



Titan Advanced Solutions, Inc., based in Richardson, Texas, is a growing company that provides expertise in engineering, fabrication, and installation support in the development of antennas, radars, telescopes, and a number of related industries. Our team has over seventy-five years of combined experience designing, building, and delivering successful systems all around the world. Titan's culture and agility has enabled the delivery of end-to-end solutions that satisfy our customers' ever-changing mission-critical needs.

Titan has an exciting opportunity for an experienced, self-starting, and ambitious Structural Analyst to join our creative team of engineers. This position will fill a key role in the development of core technologies and provide analysis support to our customers. In this position, you will play a critical role in helping take Titan to the next level.

#### Responsibilities:

- Conduct Finite Element Analysis of metallic structures, primarily steel and aluminum, for stress and strength, material and member selection, stiffness requirements, weight optimization, life, and performance
- Apply industry standards and methods to design and analysis (AISC, UFC, IBC)
- Develop mathematical models and analyze dynamic systems, thermal conditions, and other detailed analyses as needed
- Prepare written reports, present results, and interface with customers
- Participate in the design process including gathering information, trade studies, layouts, concepting, and review
- Support complex product development activities and contribute to completion milestones associated with specific projects
- Occasional travel as needed

#### Basic Qualifications:

- Bachelor's degree in Mechanical Engineering
- Minimum of 4 years of industry experience
- Ability to handle ITAR material and potentially obtain a security clearance

#### Desired Skills:

- Knowledge of basic engineering principles and concepts, classical hand calculations, and FEA tools to provide solutions
- Competence with ANSYS is a must and knowledge of SolidWorks Simulation is preferred
- Good office etiquette and demeanor towards coworkers, customers, and vendors
- Supporting project and company efforts with good communication, coordination, reporting, prioritization, planning, teamwork, and in providing inputs for improvement

Titan is a highly focused engineering firm that operates in a fast-paced environment. We empower each team member with the freedom to shape policy, enabling us to make decisions with our clients' best interests in mind.

Titan offers competitive healthcare benefits, a company-matching 401k Retirement Plan, and more.