



STRUCTURES AND PAYLOADS ENGINEER

PIC Specialists ("PIC") is an established and distinguished Professional Aerospace Program Management and Engineering Service Organization located in Dallas, Texas, USA. The PIC brand is about seamless integration, serving a wide range of aerospace entities - from Major airlines and operators to MROs and small-to-midsize OEMs - PIC represents a unique blend of innovative problem-solving and actionable resources.

As part of our organization's strategic growth plan, PIC is setting up a Program and Engineering Support Office to be located in Pretoria, South Africa. Since this Satellite Office will form a key element in the service solutions PIC offers its customers, it is detrimental that we employ individuals who bring specific skill sets to join this new team.

PIC is currently looking for a Structural and Payload Design Engineer to join our team. You will perform concept layouts, preliminary design, and final design of interiors components to perform their and hardware integration to meet customer requirements. Work with airplanes in-service by leading and supporting investigations into emergent issues and failures and provide resolution, analyze improvements, and develop processes and tools to improve effectiveness, quality, and efficiency of the entire development life cycle.

Engineers may specialize in Interior Avionics, Electrical Systems, Structural/Stress, Design Interior, or Certification. The selected person must be a high energy individual who feels comfortable working with production personnel globally.

PayScale and Benefits:

At PIC, we care deeply about the wellbeing of every employee. Some of the benefits open to you include:

- Market competitive salary and incentive/bonus program
- Flexible working hours
- Medical Plan
- Benefit from Employee Recognition Program
- Enjoy and build a friendly and inclusive atmosphere in the workplace.
- Cooperate and exchange knowledge with world class global engineering team.

Position Responsibilities:

- AutoCAD and SolidWorks modeling.
- Candidate is responsible for concept development, performing trade studies, CAD model generation of designs, tolerance analysis, mass analysis, producibility analysis, and electrical interconnect cabling.
- Possess an understanding of engineering and drafting job practices, techniques, and standards.
- Provide technical solutions for a wide range of tasks.
- Work independently to analyze, interpret, and translate source data into the product.

- Guide product design and verify structural integrity by using advanced analytical methods, throughout the product lifecycle to develop structural environment, characteristics, and performance.
- Possess knowledge or experience with aircraft structure, materials, strengths and properties, design criteria, loading conditions and processes (e.g. nondestructive testing, corrosion prevention, fatigue).
- Develop solutions that are imaginative, thorough, practical, and consistent with organization objectives.
- Perform detailed analysis and interpretation of source data and make corrections as appropriate.
- Perform production and QA roles as assigned.
- Interact frequently with inter-organizational personnel and external customers.
- Represent the organization by providing solutions to difficult technical issues associated with specific projects.
- Review incoming source data to identify the effect and impact on the product.
- Use analytical skills to determine solutions and resolve problems.
- Adhere to established styles and procedures.
- Meet assigned schedules and deadlines.
- Meet production and quality standards.

Basic Qualifications (Required Skills/Experience):

- 3 years' work-related experience in Aerospace/Aviation Industry.
- Bachelor's degree or higher in Engineering or related field.
- 3 years of SolidWorks or 3D modeling software skills (part design, surfacing, sheet metal, electrical etc.).
- General understanding and familiarization of engineering practices and related technical publications.
- Strong PC skills with high proficiency in Windows and Microsoft Office products functionality.
- Proficiency in 3D modeling skills.
- Ability to learn new applications quickly.
- Ability to prioritize for maximum efficiency for multiple projects.
- Ability to define and document processes as required.
- Ability to follow written and verbal instructions.
- Ability to travel for training or assignments as required.
- Good organizational skills.
- Confirmed reasoning, analytical abilities and mechanical proficiency.

Preferred Qualifications (Desired Skills/Experience):

- AutoCAD and SolidWorks proficiency



- Experience validating or verifying structural models.
- Experience with structural design principles for aircraft primary structures, secondary structures, interior payloads.
- Solid communicator, fluent in both written and verbal English.
- Experience in project management (planning, monitoring, reporting).