



ENGINEERING DESIGNER/DRAFTER

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 looking for an Engineering Designers/Drafters to join our team. As an Engineering Design/Drafter, you will contribute to a cross disciplinary team environment and will need to collaborate with Product Definition Engineers to develop aerospace systems parts. You will also thrive on tackling challenges, as the position requires the use of problem-solving skills in a hands-on work environment to address problems and implement appropriate design or process changes. Create design drawings for manufacturing of aircraft parts, assemblies, and installations working from customer specifications and instructions. Ensure that activities are in line with internal/external customers, FAA requirements, and OEM processes to achieve department objectives.

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:

- Knowledgeable of AutoCAD and SolidWorks as it relates to company design needs.
- Skilled in all facets of 3D modeling in SolidWorks.
- Creates complex and simple detail, sub-assembly, and top assembly drawings.
- Writes engineering orders and makes changes to existing drawings.
- Creates assemblies and drawings for test procedures.
- Knowledgeable in ACS (aircraft coordinate systems) and can design components using ACS or local coordinates.
- Knowledge of MBD (Model Based Definition) and its applications in the aerospace engineering environment and documentation.



- Performs weight calculations.
- Performs design checks of models and drawings created by other drafters.
- Strong understanding of GD&T practices per ASME and ANSI standards.
- Manufacturing knowledge in the machining of metallic components and sheet metal forming.
- Creates tooling models and drawings.
- Aids the shop, customers and vendors in reading and interpreting company and customer drawings to facilitate manufacturing.
- Develop assembly BOMs.
- Experience with PLM software and configuration management practices preferred
- Performs tolerance stack-ups and interference checks as needed.
- Experience in Primary and Secondary airframe structures.
- Must have Aircraft Design Experience
- Prototype design, analysis and compliance testing.
- Produce 3D models and 2D drawings in SolidWorks CAD.
- Ensure compliance to system requirements.
- ECO/ECN and Change Order implementation in PLM.
- CAD definition of structural reinforcements, creation of 2D drawing definition, lead engineering review of 2D drawings, engineering release.

Basic Qualifications (Required Skills/Experience):

- Typically requires an AA/AS degree (or other 2-year post high school training) with a minimum of 6 years of relevant experience.
- Demonstrated professional experience communicating in English (verbal and written).

Preferred Qualifications (Desired Skills/Experience):

- 5+ years of design experience in the engineering field, in a product definition group.
- Experience with GD&T and working knowledge of industry standards including ASME/ANSI Y14.
- 5+ years of experience in 3D modeling with CAD tools.
- Should be at an "expert" level in creating sketch-based solids and geometric surfacing.