**Aerospace Structures/Stress Engineer**

Astro Aero Pty Ltd

Urangan QLD 4655

Full-time

**The Company**

Astro Aero Pty Ltd is based in Hervey Bay, Queensland Australia. The company has been established to design, type certify and manufacture a new turboprop aircraft for the general aviation market. AA is seeking motivated and talented team players to join a growing team of engineers, draftspersons and technicians developing this innovative aircraft.

**The Position**

Structures/Stress Engineer.

We are seeking experienced aerospace structures/stress engineers responsible for the structural development aspects such as architecture development of wing and fuselage components and sections, performing structural stress analysis, verifying structural integrity using analytical methods and finite element analysis tools, documenting the results and authoring justification reports.

**The Candidate**

To be successful in this role, you are expected to be a highly organised self-starter with demonstrated experience in performing aerospace structural and stress analysis activities. Ideally you have experience through the complete aircraft development life cycle including regulatory compliance and certification. Experience with GA aircraft development would be highly regarded. Candidates are expected to be creative, forward thinking, self-motivated, with the ability to work in a team of like-minded development engineers.

**Responsibilities of the Position**

The successful candidate will be responsible to:

* Perform aircraft structures and stress technical design activities under general direction of the structural team lead
* Perform structural and stress definition, validation and compliance activities of aircraft systems, components, assemblies, installations, test fixtures or tooling
* Solicit stakeholder feedback and obtain management approval of proposed design concepts at design reviews
* Coordinate with production engineering to agree/clarify manufacturing methods and requirements

The successful candidate will ideally be able to perform the following technical tasks:

* Preparation of technical requirement documents for structural components
* Structural analysis using classical methods (hand calculations)
* Finite Element structural analysis using NASTRAN, FEMAP
* Primary & secondary structure architecture and integration of mechanical systems
* Detail component structural sizing
* Fatigue, Safe-Life and Damage Tolerance assessments
* Interpretation of GD&T
* Familiar with material and process selection
* Familiar with model-based design and component approvals
* Preparation and checking of certification reports for structural certification compliance
* Items that would be highly regarded:
* Loads development experience
* Structural testing experience
* CATIA V5 model-based design experience
* Development of stress methods

**Minimum Requirements**

The candidate must be able to demonstrate the following key attributes:

* A degree level qualification in either Mechanical or Aeronautical Engineering, or a relevant discipline, is mandatory.
* A minimum of 10 years working experience as aerospace structural engineer
* Sound knowledge in classical stress analysis and FE structural analysis (NASTRAN, FEMAP)
* Experience with aircraft loads, fatigue and damage tolerance
* Experienced in using products like Excel, Word, PowerPoint, MATLAB etc.
* Flexible, innovative and able to work to tight deadlines and in multicultural teams

**Physical Requirements and Work Environment**

* Mostly collaborative open office environments, occasional shop floor involvement
* Substantial amounts of computer work
* Regulated industry with strict adherence to procedures
* Typical 8 hour days plus lunch break, core (required) hours are 8AM to 4PM
* Occasional flexibility required by staying late or arriving early to meet scheduled business deadlines
* Must be able to obtain work rights to work in Australia

**What you will get in return**

Astro Aero is an equal opportunity employer. This is an exciting opportunity to experience the rewarding work-life balance lifestyle when working in the beautiful Wide Bay region of SE Queensland. You will be offered a permanent full-time position. Residence Visa assistance or sponsorship will be considered for exceptional candidates.

**How to lodge an application**

If you are interested in this position, please e-mail your resume to us. Also include a cover letter on how your experience, abilities, knowledge and qualities satisfies the minimum requirements for this position, and prepare you to be the ideal candidate for this role.

Job Types:

Full-time, Permanent, 2 positions available.

Salary: $100,000.00 – $135,000.00 per year

Schedule: Monday to Friday

Experience: Aerospace, 5 years (Required)

Work Remotely: No