

We are currently looking for a...

**STRESS ANALYSIS ENGINEER to join our team!**

**Job Summary**

The Stress Analysis Engineer is responsible for conducting stress analysis and reporting of newly developed components, options, and repairs. Also, the Stress Analysis Engineer is responsible for designs and drafting drawings for manufacturing as well as composing designs of new helicopter components and options. In addition, the Stress Analysis Engineer manages CATIA design systems by setting up profiles, troubleshooting applications, maintaining databases, etc.

**Main Responsibilities**

- Stress analysis of newly developed components, options, repairs for helicopters.
- Guidance to designers on structural aspects of new modifications and installations.
- Evaluation of designs for fatigue aspects.
- Checking and signing drawings from strength and fatigue perspective.
- Preparation of stress analysis reports.
- Making statements of compliance with airworthiness standards, as a Transport Canada delegate for Structures.
- Establishment of structural test requirements; test witnessing and analysing test results; reporting results in structural substantiation reports.
- Conceptual and detail design of new helicopter components and options.
- Preparation of detail / assembly / installation drawings for manufacturing.
- Checking drawings prepared by other designers.

CATIA Administration (Secondary Responsibilities):

- Setting up user profiles with permissions and licence privileges.
- Troubleshooting CATIA application; interface with MIS and CATIA support subcontractors as required.
- Maintenance of detail libraries.
- Management of CATIA model database.
- Coordinating training activities.
- Coordinating upgrades and associated data migration

**MINIMUM QUALIFICATIONS**

- Bachelor's degree in Aeronautical or Aerospace Engineering; specializing in Structures (Master's preferred).
- Professional Engineer's Licence.
- Transport Canada delegation for Structures.
- 8 years experience in stress analysis of aircraft structures and structural modifications including repairs (preferably helicopters).
- 2 years experience in mechanical/structural design.
- Advanced skills in finite element analysis using NASTRAN and conventional methods.
- Working knowledge of MS Word, Access, Excel, Outlook
- Basic knowledge of UNIX
- Good CATIA skills (2D and 3D design, administrator functions)