



## Design Engineer (Senior) - Mechanical Systems

Location: London, Ontario, Canada (Relocation Required)

THE MECHANICAL SYSTEMS ENGINEER IS RESPONSIBLE FOR TYPE DESIGN CHANGES AND PRODUCT DEVELOPMENT INCLUDING THE CREATION AND REVIEW OF CERTIFICATION PLANS, DESIGNS, DRAWINGS, TEST PLANS & REPORTS, DESIGN REVIEWS, CALCULATIONS & ANALYSIS, AND COMPLIANCE REPORTS RELATED TO AIRCRAFT MECHANICAL, POWERPLANT, FUEL AND ENVIRONMENTAL SYSTEMS.

### Responsibilities:

- ◆ Support the mechanical engineering specialists, and mentor intermediate/junior engineers as required
- ◆ Implement type design and/or manufacturing process changes related to aircraft mechanical, propulsion and fuel systems to improve, quality, safety, and performance of aeronautical products
- ◆ Review engineering change requests and participate in the classification of type design changes
- ◆ Develop certification plans for changes to existing type designs or new aeronautical products
- ◆ Create and review test plans, analysis reports, design reviews and other substantiating documents
- ◆ Design and prepare flight test change orders for test aircraft modifications and installation of test equipment
- ◆ Participate in testing (ground & flight), perform post-test analysis, create and review test reports
- ◆ Generate and review compliance reports to document compliance to the regulations
- ◆ Develop and review engineering, material, and process specifications
- ◆ Coordinate with TCCA and/or delegates as required throughout the type design change approval process
- ◆ Support Continuing Airworthiness activities including review of technical publications and investigation of occurrences and service difficulties
- ◆ Participate in research and development activities for new products or designs.
- ◆ Other duties as assigned

### Skills & Experience:

- ◆ 10 years relevant Aerospace Engineering experience in aeronautical product development
- ◆ Knowledgeable in Airworthiness Manual Chapter 523 of the Canadian Aviation Regulations
- ◆ Experience performing type design changes to aeronautical products
- ◆ Familiar with FADEC engine control systems and software
- ◆ Knowledgeable in aircraft controls, landing gear, powerplants, fuel and hydraulic systems
- ◆ Experience with CATIA V5, AutoCAD / DraftSight, and Solid Edge
- ◆ Proficiency in MS Office products and collaboration tools
- ◆ Excellent time management skills
- ◆ Works well within a team environment
- ◆ Capable of independent decision making
- ◆ Able to prioritize tasks based on company needs
- ◆ Previous or current delegation experience with a civil aviation authority is an asset
- ◆ Previous MRB authority is considered an asset
- ◆ Professional Engineering Licence is an asset
- ◆ Private pilot license is an asset

### Academic Requirements:

- ◆ Bachelor's and/or Master's degree in Aerospace and/or Mechanical Engineering

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