



AT DIAMOND AIRCRAFT, WE COMBINE ATTENTION TO DETAIL WITH CUTTING-EDGE TECHNOLOGY AND PIONEERING INNOVATION. OUR DEDICATION TO THE QUALITY OF OUR ENGINEERING AND WORKMANSHIP MAKES OUR AIRCRAFT THE SAFEST IN THEIR CLASS.

SENIOR STRESS ENGINEER

Location: Canada

The Stress Engineer is responsible for providing technical support for aircraft development and certification programs. These activities include: the development and documentation of static strength methods, analysis and tests, and the review and approval of engineering data.

Responsibilities:

- › High degree of independent decision making based on departmental policies, sound engineering judgment, experience, and company goals or objectives
- › Anticipate and solve complex engineering problems
- › Develop standards and guides for diverse engineering activities
- › Conceive, plan, and conduct research in problem areas of considerable scope and complexity
- › Conceive and plan investigations of broad areas for which engineering precedents are lacking, i.e. in areas critical to overall engineering problems
- › Act as a primary contact for all stress and structures matters, and mentor junior stress engineers as required
- › Improve daily processes and ensure all work meets customer needs
- › Maintain current knowledge developments in the field and other related aircraft fields
- › Recommend innovations to improve quality, economy, and effectiveness of aircraft designs
- › Perform other related duties as assigned including ongoing production support.

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Skills & Experience:

- › Bachelor's or Master's degree in Aerospace or Mechanical Engineering
- › Professional Engineering License is an asset
- › 10 years of relevant Engineering experience (5 years Stress and/or Structures)
- › Experience with composites, metallic structures, primary and secondary aircraft structures
- › Experience with full cycle analysis, including: loads extraction, application, boundary conditions, material definition, orientation, and free body diagrams & post processing
- › Familiar with static strength methods
- › Expertise in finite element modeling packages (Femap & NX Nastran, Patran, HyperMesh)
- › Expertise in composite stress analysis
- › Experience in testing of composites to develop material allowable for certification
- › Expertise in certification of composite structural components to CAR AWM 523 and/or EASA CS regulator requirements
- › Familiar with Part 23 certification regulations
- › Experience with CATIA V5, AutoCAD, and Solid Edge
- › Previous or current delegation experience with a civil aviation authority is an asset
- › Previous MRB authority also considered an asset

Why Work For Us:

- › Comprehensive Benefit Plan
- › Shift Premiums
- › Employee and Family Assistance Program (EFAP)
- › Tuition Reimbursements
- › Employee Referral Program
- › Registered Retirement Savings Plan (RRSP) Program
- › Company Sponsored Social Events

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