

SENIOR AERODYNAMICS ENGINEER- Ontario

As a member of the Flight Sciences Group, you will function as a technical resource for analysis, testing and documentation in aerodynamics and static loads, as applicable to the design, development, certification, production and fleet-service of regional and business aircraft.

Responsibilities:

- Conduct aircraft aerodynamics analyses and design using in-house and commercial software.
- Conduct gust and manoeuvre loads analyses using inhouse software.
- Generate meshes and perform a wide range of computational fluid dynamics analyses for internal and external flows.
- Perform aerothermodynamics computations and ice impingement and ice growth analyses
- Conduct transient fluid system simulation analyses.
- Provide support to production and production flight-test for aerodynamic and aircraft handling related issues and non-conformances.
- Participate in the planning and execution of flight tests and wind tunnel tests.
- Develop, use and maintain in-house software and methods.
- Prepare Technical Reports, Test Plans, Requirements Documents,

Qualifications

- This position is at an Senior level in Core Technical Engineering.
- The applicant will have a Bachelor's or Master's degree in Aerospace or Mechanical Engineering from an accredited university.
- 10-15 years of specialization in aerodynamics, computational fluid dynamics, & aircraft design.
- experience with FORTRAN and/or C and/or C++ programming, & the UNIX operating system is an asset.
- Experience generating meshes for computational fluid dynamics analyses is expected.
- Basic understanding of aircraft performance, flight dynamics, & aeroelasticity · computer aided design, especially CATIA is an asset