Our company is looking for a dynamics engineer. Please review the list of responsibilities and qualifications. While this is our ideal list, we will consider candidates that do not necessarily have all of the qualifications, but have sufficient experience and talent.

Responsibilities for dynamics engineer

- Prescribe system design requirements to ensure engines meet customer requirements for vibrations, durability, and extreme load events such as fan blade off
- Work directly with design integration, engine program, hardware owners, and engine test to assure ED&L requirements are understood and implemented
- Define instrumentation requirements to measure engine loads and vibration parameters
- Utilize CAE tools to support an efficient development process
- Develop new CAE tools and refine existing CAE tools to help deliver Secondary Ride performance enhancements and further tuning/development process efficiencies
- Oversee vehicle tests as required
- Develop new CAE tools and refine existing CAE tools to help deliver Handling performance enhancements and further tuning/development process efficiencies
- Must be familiar with gusts, landing simulations, and flutter
- Apply best practices in day to day testing using comprehensive test data and manual test suite
- Enhance black box test suites and tools to meet business needs with respect to functionality, usability, system and other quality goals

Qualifications for dynamics engineer

- 4 years of experience performing CFD on air induction systems using ANSYS Fluent for analyses of both low and high pressure ducting
- 4 years of experience collaborating with component and design and release engineers to achieve targets for function and cost
- 2 years of experience working with a flow testing lab to help acquire accurate measured restriction data to correlate with CFD predictions
- LabView and dSPACE programming
- Rap testing
- SAE vehicle competition (Formula SAE / BAJA /) especially a leadership role