Example of Dynamics Engineer Job Description

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Our innovative and growing 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

- Work effectively within cross-functional Mechanical, Heat Transfer and performance team for project execution
- Apply fast work approach to new product design
- Perform analyses using commercial and in-house codes write new code
- Collaborate with dynamics engineers to build analytical tools for structural dynamics and physics simulation
- Develop software to automate recurring processes and analyses
- Accelerate computationally expensive processes through algorithmic optimization and parallel/distributed computing
- Build data management solutions for storing, accessing, and manipulating flight, test, and analysis data
- Develop intuitive and flexible front-ends
- Define the characteristics of the suspension (springs, rubber elements, pneumatic suspension, shock absorbers/dampers) to check the security criteria of the train (flexibility coefficient, derailment,) and comfort
- Use aerospace experience to perform modal analysis and time history analysis on finite element models

Qualifications for dynamics engineer

- Has desire and ability to work in a fast-paced team environment
- 5 15% potential domestic or international travel, depending on training and

- Requires a Bachelors in Civil or Mechanical Engineering or Engineering
 Mechanics and 5 years of engine vibration simulation work experience
- In lieu of the above, would accept a Masters in Mechanical Engineering or Engineering Mechanics with an academic focus on simulation of mechanical systems and 1 year of engine vibration or structure simulation work experience using ABAQUS software
- Take ownership of the design and implementation of the new ERP