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# Example of Mechanical / Senior Mechanical Engineer Job Description

Our company is hiring for a mechanical / senior mechanical engineer. If you are looking for an exciting place to work, please take a look at the list of qualifications below.

## Responsibilities for mechanical / senior mechanical engineer

* Experienced with (FEM) Finite Element Modeling (FEA) mechanical stress modeling and thermal analysis/modeling tools
* Provide overall support and supervision of mechanical engineering designs, concepts, testing, and integration
* Lead multi-disciplinary engineering teams to solve complex problems
* Mentor engineering staff on best practices, market trends, and client needs
* Coordinate design integration of subsystems to create a complete product
* Generate engineering models and test under lab and field conditions
* Provide inputs to overall systems tests and equipment acceptance tests
* Write and execute test plans and debug complex systems
* Take designs from prototype to field capable products
* Support design for manufacturing and production

## Qualifications for mechanical / senior mechanical engineer

* At least 1-2 years of managing a small team
* Demonstrate a good understanding of the fundamentals of mechanics and mechatronics
* Use of ad-hoc hand calculations and investigative experiments to evaluate the concepts/ideas and to support engineering decisions
* Knowledge and experience of rotating machinery design (such as HDD, brushless motors, turbochargers, turbines or related) in areas of vibration, noise, rotor balancing, heat and wear/ tear are preferred
* Knowledge and experience of using Matlab and Labview for signal processing and noise analysis are preferred
* Pro-actively resolving critical design, manufacturing, quality and reliability issues