



Example of Principal Mechanical Engineer Job Description

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Our innovative and growing company is looking to fill the role of principal mechanical engineer. To join our growing team, please review the list of responsibilities and qualifications.

Responsibilities for principal mechanical engineer

- Perform pre-test analysis
- Author test plans that will effectively and efficiently verify requirements compliance
- Support customer demonstrations onsite and at customer facilities
- Anticipate customer needs and find innovative ways to provide for those needs
- Create preliminary design layouts using computer-aided design tools
- Check layouts and drawings for clarity, completeness, conformity to standards, and specifications
- Investigate pertinent design factors such as ease of manufacture, availability of materials and equipment, interchangeability, safety, strength-weight efficiency, contractual specification requirements and cost
- Compile and analyze test data to determine effect of design on products, systems, or equipment in relation to factors such as temperature, pressure, energy and material properties
- Capable of working closely with multi-disciplinary engineers
- An attention to detail in all of these areas

Qualifications for principal mechanical engineer

- Understanding of fluid dynamics, pressure vessel design and materials
- Experience with finite element analysis, thermal/emf/hydraulic flow profile

- Willingness to work in an office in Queretaro, Qro MX Willingness to submit to a background screen and a drug test
- Shall have at least 15 Years of experience in upstream oil and gas industry with indepth knowledge in selection, optimization, develop specifications, evaluation of vendor offers, review vendor data and attend FAT of large gas turbine compressor packages and other rotating mechanical equipment
- Bch in Mechanical Engineering