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# Example of Principal Mechanical Engr Job Description

Our company is growing rapidly and is hiring for a principal mechanical engr. To join our growing team, please review the list of responsibilities and qualifications.

## Responsibilities for principal mechanical engr

* Mentor and lead CPT leads and junior engineers
* Work in coordination with the Program office to interact with customer and end-user representatives in developing system requirements
* Defining and establishing manufacturing processes that are cost effective and meet quality requirement
* Improving processes to increase productivity and competitiveness
* Close interaction with personnel responsible for NC programming, inspection equipment programming, machining, assembly, tool design and methodization
* Meeting cost & schedule commitments while maintaining high standards of quality
* Mentoring junior and mid-level career manufacturing engineers
* Leading DFSS/DMADV lean initiatives
* In partnership with customer management, lead the design of Mechanical Ground Support Equipment (MGSE)
* As part of the customer team, will act as the cognizant engineer to provide technical expertise and guidance to mechanical designers as they design mechanical ground support equipment

## Qualifications for principal mechanical engr

* Ability to handle responsibilities with effective interpersonal skills
* Knowledge in engineering materials, mass production manufacturing processes and capabilities, tolerance analysis, CFD (Flotherm/IcePak), numerical and computational skills, CAD and FEA a plus
* Must have strong communication/presentation skills and some background in basic engineering design
* Play a key role in ensuring the final design meets the marketing requirements, quality and cost goals, and achieves world-class standards of reliability, manufacturability, EMI containment, and serviceability
* Conduct engineering tests to evaluate and verify the robustness and proper performance of new products Manage assigned development activities of external suppliers
* Must have an active DoD Secret Clearance, and US Citizen