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# Example of Materials Engineer Job Description

Our company is growing rapidly and is searching for experienced candidates for the position of materials 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 materials engineer

* Monitor and support material degradation activities including (but not limited to) on-stream testing & corrosion monitoring, failure analysis & testing, leak tracking and analysis
* Training – track employee technical training for all new hires, new training requests for direct reports
* Employee Career development- create and track career plans for each direct report
* Perform technical analysis of melting and delivery processes
* Interface with Melting Equipment Design team for new Melting technologies (concept through production trial)
* Interface with Research and Development for production trials of new products and technologies
* Interface with Plant Engineering to facilitate the introduction of new technologies into manufacturing
* Support manufacturing startups, developments and expansions worldwide
* Support equipment repair activities as required worldwide
* Aid the development of new test and evaluation methods for assessing the use of various metals and joining methods

## Qualifications for materials engineer

* Expertise in statistical weld analysis, mechanical testing, fatigue, metallography, SEM/EDS, TEM, XRD, CT-XRAY, material testing global and local standards and specification development
* Implementation of SPC systems in high volume manufacturing industries
* Proficiency in the implementation of RFT (Right First Time) Production Methodologies
* Six sigma Blackbelt certified is desirable
* Medical Device Company or highly regulated industry experience is preferred
* Experience working with suppliers is preferred