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# Example of Semiconductor Process Engineer Job Description

Our company is searching for experienced candidates for the position of semiconductor process engineer. If you are looking for an exciting place to work, please take a look at the list of qualifications below.

## Responsibilities for semiconductor process engineer

* Proficiency with electronic instruments and test equipment
* Demonstrated innovative process development ability
* Familiarity with analytical methods
* Examining semiconductor process tools and facility support systems against their designs to identify chemical safety hazards to workers
* Coordinating world-wide with Micron personnel to assess the risks associated with those hazards
* Developing cost-effective safeguards to remove or mitigate those risks
* Applying risk assessments in support of event analysis, including containment decisions, root cause analysis and development of permanent corrective actions
* Working with contractors, service personnel and other engineers and managers in a high-stress, manufacturing environment where tools, processes, chemistries, their hazards, along with task priorities frequently change
* Maintaining respirator certification and being able to work for short periods of time while wearing chemical and/or fire-retardant protective equipment
* Using established methods to predict chemical reactions involving reactions involving semiconductor manufacturing chemicals

## Qualifications for semiconductor process engineer

* Knowledge of Semiconductor Device Physics a plus
* Experience and demonstrated ability predicting chemical reactions and properties
* Knowledge of chemical analysis methods and equipment
* Semiconductor fabrication experience with emphasis in Silicon Bipolar, CMOS technologies, or Analog technologies preferred
* History of running PVD sputter system and knowledge of characterization methods
* Promptly attend to, and resolve, manufacturing issues that occur over the course of Operations’ shift work