



Example of Process Integration Engineer Job Description

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Our company is growing rapidly and is hiring for a process integration engineer. We appreciate you taking the time to review the list of qualifications and to apply for the position. If you don't fill all of the qualifications, you may still be considered depending on your level of experience.

Responsibilities for process integration engineer

- Drive improvements in FEOL RX/STI (Shallow Trench Isolation) integration module, especially yield improvement and manufacturability across the module
- Interact directly with customers, providing technical guidance and report
- Develop and implement technological enhancements to existing baseline flows to meet our customer's needs and our internal goals (cost reduction, synchronization)
- Interact with a number of Fab1 teams (Integration, CFM, OPC, Module Engineering, Yield Engineering, Device Engineering) to continuously increase yield, improve manufacturability and quality
- Integrate various processes and develop wafer fabrication process flows for new product introductions
- Improve various wafer Fab processes for manufacturability and yield improvement
- Acquire, customize and qualify new semiconductor process equipment
- Sustain various wafer Fab processes with emphasis on statistical process control (SPC)
- Conduct process capability analysis, failure mode analysis, and SPC review for continuous design and process improvement
- Review process and product yield, propose and implement yield improvement measures

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- Experience in photonics an advantage but not essential (focus is on silicon processes and equipment)
 - Good knowledge of statistical techniques
 - Understanding of the challenges and opportunities facing alternative memory technologies is expected
 - Expertise in leading edge memory or logic process integration and module development is required
 - Deep understanding of fundamental device physics including band structure, charge transport , film conductivity and contact resistance challenges
 - Sufficient understanding of materials science to enable highly successful interaction with process and materials experts