Downloaded from <https://www.velvetjobs.com/job-descriptions/principal-electrical-engr>

# Example of Principal Electrical Engr Job Description

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

## Responsibilities for principal electrical engr

* Serve as “Responsible Engineering Authority” (REA) for major design efforts involving multiple engineers across multiple disciplines
* Design 10 – 500MHz low noise 14-bit data acquisition circuit card assemblies
* Design circuits that interface focal plane arrays and PIN photodiodes to data acquisition electronics
* Coordinate other engineers in component-selection, packaging, thermal, structural-analysis and test
* Provide accountability to program and functional leadership for technical execution on time and within budget
* Work with Supply Chain and Fabrication Shops to build breadboard, prototype and production hardware
* Bring up new designs and perform design verification and qualification of the product
* Contribute on the integration team as required to achieve the system performance
* Travel to suppliers or customers as needed
* Working with a multi-disciplined Integrated Product Team to support production deliveries

## Qualifications for principal electrical engr

* Proficient with digital toolsets and backend vendor tools
* Proficient with a software or scripting language
* Ability to take a design from concept to production
* Ability to collaborate and work with other disciplines
* Self-directed – Able to complete tasks with minimum oversight
* Digital Signal Processing and simulation using MATLAB or equivalent