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

# Example of Engineer Principal Job Description

Our innovative and growing company is searching for experienced candidates for the position of engineer principal. To join our growing team, please review the list of responsibilities and qualifications.

## Responsibilities for engineer principal

* Perform hands-on research and development which include new algorithm development, prototyping analytics software and coordinate algorithm implementation into Digital Twin Framework
* Mentor early to mid-career researchers and Champion the Technical Career Path options within Global Research
* Ensure projects are delivered to the relevant stands, cost and time
* Support the delivery of major projects or a range of smaller ones requiring specialist input, and competently identify survey elements and resources required within budget and programme
* Provide day-to-day client interface, conducting site visits for technical assessment of problem solving
* Reports on project progress, risks and issues and ensures that these are highlighted and followed through
* Develops best practice, contribute to the delivery of innovative solutions for clients
* Understand product/system requirements and be able to develop application requirement specifications that fulfill product/system needs
* Expected to independently work on projects dealing with HVAC systems, from application strategy definition and specification, through system computer simulation, to system testing (lab and field)
* Develop specifications for new control objects/methods

## Qualifications for engineer principal

* Significant production experience with modern cloud technology stacks
* Experience working with large data sets, experience working with distributed computing tools a plus (Map/Reduce, Hadoop, Spark Streaming, Druid)
* Working knowledge of Cloud DVR implementations, such as Ericsson Video Storage and Processing
* Experience with designing networks and systems for processing Syslog from multiple platforms
* Experience in documenting and writing detailed method of procedures
* Experience with cloud based storage a plus