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# Example of Senior Principal Systems Engineer Job Description

Our growing company is looking to fill the role of senior principal systems engineer. If you are looking for an exciting place to work, please take a look at the list of qualifications below.

## Responsibilities for senior principal systems engineer

* Provide expertise and direction in engineering secure technical solutions for the existing Information System
* Apply engineering knowledge to monitor/assess spacecraft subsystem technical performance within cost and schedule constraints
* Lead the software development and systems integration process to ensure that the Company's data surveillance service continues to develop into a class-leading product
* Build backend components that are maintainable, flexible and scalable
* Define and follow a disciplined development workflow, including documentation of said systems
* Design, build, improve, maintain a process to move data through the data processing pipeline and warehouse
* Rapidly iterate on product and platform features by writing elegant, reliable and readable code to build robust products that last
* Be involved in all stages of development, from product ideation through architecture, documentation, implementation, testing, and support
* Continuously improve performance of data pipelines and user queries
* Serve as technical interface to the customer for assigned program(s)

## Qualifications for senior principal systems engineer

* Working experience with high power RF transmitters and antennas, filtering designs
* Bachelor's degree (in Engineering, Computer Science or related field) or equivalent, Master's degree preferred
* Must have existing DoD Secret security clearance with the ability to obtain a Top Secret clearance and/or a SSBI/Special Access clearance
* Experience with end-to-end radar modeling and simulation radar waveform and mode development
* Radar signal processing synthesis and implementation using FPGAs
* DoD Secret Clearance preferred