

Electronics R&D Engineer – Sensor Electronics

Clamart - France

Job title:

Electrical Engineer

Location:

Clamart, France

About Schlumberger:

We are Schlumberger, the leading provider of technology and services to the energy industry. Throughout much of the oil and gas lifecycle in over 120 countries; we design, develop, and deliver technology and services that transforms how work is done.

We define the boundaries of the industry by unleashing our talented people's energy. We're looking for innovators to join our diverse community of colleagues and develop new solutions and push the limits of what's possible. If you share our passion for discovery and want to find out what you could really do, then here is the place to do it.

Job Summary:

The Electronics Engineer as part of the Sensors Technology team is responsible to design analog and digital front-end electronics for sensors. He is a key contributor to technical decisions and results. He is leading the all acquisition chain from the sensitive element(s) of the sensor to the digital world. From component to system level, the electronics engineer build models and simulations. He applies scientific and efficient methodologies to deliver a validated prototype or product.

Essential Responsibilities and Duties

- Design and improve electronic designs and products (technical files, components, schematics, assembly procedures, tool manuals, etc.). Set up and run models and simulations.
- Build prototypes, products, and systems suitable for sensor characterizations and validations.
- Perform prototype and product validation for harsh environments.
- Consider metrology and physics to determine uncertainties from test results.
- Consider hardware and software integration in systems
- Conduct or participate in technical reviews of requirements, specifications, designs, code, and other artifacts.
- Author technical reports, papers, articles, patents and presentations. Interact with external suppliers and research laboratories.

Required skills

- MS / PhD in Electrical Engineering and 5 years or more of work experience
- Strong communication skills, written and verbal
- English language proficiency

- Direct hands-on experience with common electronic test equipment such as oscilloscopes, function generators, multimeters, spectrum analyzers, power analyzers, etc.
- Experience with the following is a plus:
 - Analog electronics
 - State space modeling, closed-loop control
 - Low-power, digital electronics
 - Layout and electronic boards fabrication
 - Cadence, LTSpice, MATLAB, Python

Behavior

- Teamwork
- Willingness to learn
- Analytical thinker
- Able to provide creative and innovative solutions

Schlumberger is an equal employment opportunity employer. Qualified applicants are considered without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, disability, or other characteristics protected by law.

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