

Development Engineer - Sensing Technologies

HRL Laboratories, LLC

For more than 60 years, HRL's scientists and engineers have been on the leading edge of technology, conducting pioneering research, providing real-world technology solutions, and advancing the state of the art. We continue to be recognized as one of the world's premier physical science and engineering research laboratories.

We're looking for the best and brightest scientists and engineers to help us develop the most innovative technologies for aerospace, automotive and defense applications. You'll have the opportunity to conduct basic and applied research as well as contribute to product development. You'll be positioned for unique career growth opportunities as a member of the research community serving our LLC Members, government and commercial customers. You'll also have a key role in shaping the future of technology.

Education desired:

Bachelors of Science degree or higher is preferred.

Essential job functions:

Candidate will join a diverse team of engineers and physicists developing next generation autonomous navigation systems for integrating high precision inertial sensing technologies. Platforms include autonomous vehicles and smart systems. Candidate will have opportunities for mentorship by the technical staff while supporting research and development in the areas of Micro-electro-mechanical-systems (MEMS), electronics, and advanced algorithms. Job responsibilities may include device design and modeling, device fabrication in semi-conductor facility, sensor testing, data processing, and systems build and validation.

Experience required for this position:

- Experience working in a research laboratory
- Computer-aided design and IC layout such as Inventor, Solidworks, L-edit, Autocad, or Cadence
- Matlab programming for data acquisition/processing and instrument control
- Device testing including proficiency in using common test equipment such as oscilloscopes, function generators, spectrum analyzers, and vacuum chambers

Experience preferred for this position:

- Finite element analysis simulation software such as COMSOL or ANSYS
- Multi-physics device modeling
- Understanding of MEMS sensors and actuators
- Device/IC fabrication in clean room

Abilities required:

- Able to work within a dynamic team with various levels of education and background
- Flexibility in job functions and have organizational skills to multi-task during the work day
- Ability to quickly learn new skills required to complete tasks
- Proficient with hardware and electronics assembly and tests

Special requirements:

U.S. citizenship or permanent resident status required.

Contact Jill Mulqueen for more information: jmulqueen@hrl.com