

# Firmware Development engineer

## 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:

Bachelor's degree in Computer Science, Computer Engineering, Electrical Engineering or equivalent experience

### Essential Job Functions:

Candidate will join a growing team developing next generation systems integrating high precision sensing technologies with advanced shock and vibration designs in a variety of applications under harsh environments. Job responsibilities include development of firmware and design and implement system software solutions to provide a high performance and robust embedded platform to application teams.

### Experience Desired:

- 3 to 5 years of hands-on experience is desired
- Design and implement software of embedded devices and systems from requirements to production and commercial deployment
- Firmware development for embedded devices, ARM cortex M3 , M4 and microchip dsPIC33.
- Design, develop, code, test and debug system software
- Interface with hardware design and development

### Knowledge Desired:

- Embedded system development
- Firmwafer development
- Expert knowledge in C/C++ , C#
- Interface protocols including USB, CAN, SPI , I2C, RS232, Uart
- Target platforms including FPGAs, microcontorllers, digital signal processing
- Knowledge of Matlab, Simulink, Real time Workshop, Altium is a plus
- Knowledge of electronics, including the use of basic test equipment such as oscilloscopes and multimeters
- Knowledge of reading schematics and data sheets for components

### Essential Physical/Mental Requirements:

- Excellent written and oral communication skills
- Works independently to execute work plans, provide status updates and adjust to changing requirements.
- Strong documentation skills

### Special Requirements:

U.S. citizenship or permanent resident status required.

Contact Jill Mulqueen at [jmulqueen@hrl.com](mailto:jmulqueen@hrl.com)