

CAREER OPPORTUNITY: Senior Electrical Engineer

Make an Impact! Discover Echo is a revolutionary company that has redesigned microscopy for the life sciences landscape. Our unique hybrid microscopes are used around the world by educators, scientists, and researchers for cutting-edge applications. With progressive design, we empower our users to change the way they view science. We love working with brilliant people to create, build, and promote the best products in our industry.

Our team is growing to meet demand and we are seeking a Senior Electrical Engineer who can excel in a fast-paced environment that spans early R&D development through to production. The candidate will lead our electrical design team and collaborate with all departments in the design, integration, and testing of new and exciting products that support our line of hybrid microscopes. This is an unique opportunity to see your work benefiting researchers all over the world.

ESSENTIAL FUNCTIONS:

- Work on developing and testing new system/architecture designs for future products.
- Create breadboard designs for proof of concept for validation of new designs.
- Determine component requirements and develop PCB schematics and layouts for various image sensors, motor controls, illumination methods, microcontrollers and communication interfaces.
- Develop firmware in conjunction with other software departments to support and control all electrical designs.
- Develop clear, detailed test specifications to ensure robust and repeatable system performance.
- Develop software development standards and best practices.
- Diagnose and solve issues on the production line and in the field.
- Maintain existing schematics, PCB designs and bills of materials.
- Maintain all existing board firmware.

MINIMUM REQUIREMENTS:

- Bachelor's degree or higher in Electrical Engineering or a related field from an accredited college/university and 5-8 years of related technical experience in electrical design and firmware development.
- Languages:
 - Experience with C/C++ required.
- Tools
 - Experience with Altium Designer preferred.
- Skills:
 - Schematic and Layout design experience in Altium Designer or equivalent.
 - Ability to design and build electrical prototypes in a lab. Soldering skills preferred.
 - Experience with control systems for motors, servos and LEDs.



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- o Experience architecting complex systems utilizing various interface protocols (including, but not limited, to I2C, I2S, USB, Ethernet, and some RF experience preferred).
- o Experience with Atmel processors, firmware development in Atmel Studio and Arduino platforms preferred.
- o Unit test coverage and system testing practices.
- o Software development best practices: version control (Git), writing requirements, writing automated tests, documenting code and API's, code reviews.
- o Resourceful debugging, troubleshooting, and problem solving.
- Other Qualifications:
 - o Work independently with minimal supervision.
 - o Self-driven problem solver.
 - o Equally skilled at prototyping solutions and maintaining codebases.
 - o Effective communication skills.
 - o Good writing skills.

WHAT WE OFFER:

- An opportunity to join a dynamic microscopy company that is making an impact on life science research
- The opportunity to join an incredible team
- Hybrid work schedule
- Base Salary + Bonus
- Medical, Dental, and Vision Insurance
- 401K with employer matching

Applicant must be legally authorized to work in the US and must not require present or future sponsorship.

Send your resume to: jobs@discover-echo.com

As an equal opportunity employer, we do more than accept difference. We celebrate diversity, we support employees from a wide range of backgrounds, and we benefit from the added creativity and richness that these differences bring to our offices and community. We pride ourselves on being a collaborative environment where everyone's talents and opinions contribute to the greater good and are always recognized.