Senior Firmware Engineer

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Company: Ecolab

Location: Eagan

Category: computer-and-mathematical

Ecolab is seeking a **Senior Firmware Engineer** to architect, design, and full stack software applications within the IoT domain. The position is senior level position on the IoT software development team. The candidate will be part of a dynamic team helping to support a digital transformation of our business by creating IoT applications that deliver new insights to our diverse customer base.

What You Will Do:

Work with stakeholders to document system requirements for backend stack components or IoT applications

Participate in new product development by being part of a cross-functional team involving hardware, software, SME professionals, and external partners

Developing and testing of IoT systems development involving IoT edge devices and gateways

Stay on the cutting edge of technology evolution in this space by continually evaluating new tools, techniques, and processes

Minimum Qualification:

Bachelor's degree in Computer Engineering, Computer Science, Electrical Engineering, or a similar technical degree

5 or more years' experience with relevant software development in a fast-moving environment

3 or more years working in C or C++ in embedded firmware development.

Experience with embedded RTOS or bare-metal development.

Experience in serial communication protocols, such as UART, SPI, I2C

Experience in ARM based microcontrollers, such as Microchip, NXP, Silicon Labs, ST Micro

Experience in Modbus RTU or Modbus TCP,

Demonstrable knowledge in wireless technologies such as BLE, Bluetooth Mesh, LoRa, ZigBee and cellular technologies

Immigration Sponsorship not available for this role.

Preferred Qualifications:

Experience in supporting Embedded Firmware Platform, Board Support Package development.

Experience in one or more of the following areas: bootstrap loader, embedded file systems, system controls, embedded Linux, CAN Bus development

Experience with Agile development methodologies

Initiative and ability to work independently and as a member of a multi-disciplinary team while handling multiple tasks or projects.

Active communication skills, both verbal and written and good organizational skills

Benefits

Ecolab strives to provide comprehensive and market-competitive benefits to meet the needs of our associates and their familiesto see our benefits.

If you are viewing this posting on a site other than our Ecolab Career website, view our benefits at jobs.ecolab.com/working-here.

Covid-19 Vaccine Notice

Due to local mandates and customer requirements, applicants for certain customer-facing positions must be fully vaccinated (which in some situations requires a booster if eligible), unless a religious or medical accommodation is requested by the applicant and approved by Ecolab.

Americans with Disabilities Act (ADA)

Ecolab will provide reasonable accommodation (such as a qualified sign language interpreter or other personal assistance) with our application process upon request as required to comply with applicable laws. If you have a disability and require accommodation assistance in this application process, please visit the Recruiting Support link in the footer of each page of our career website.

Our Commitment to Diversity and Inclusion

At Ecolab, we believe the best teams are diverse and inclusive, and we are on a journey to create a workplace where every associate can grow and achieve their best. We are committed to fair and equal treatment of associates and applicants. We recruit, hire, promote, transfer and provide opportunities for advancement on the basis of individual qualifications and job performance. In all matters affecting employment, compensation, benefits, working conditions, and opportunities for advancement, we will not discriminate against any associate or applicant for employment because of race, religion, color, creed, national origin, citizenship status, sex, sexual orientation, gender identity and expressions, genetic information, marital status, age, disability, or status as a covered veteran.

In addition, we are committed to furthering the principles of Equal Employment Opportunity (EEO) through Affirmative Action (AA). Our goal is to fully utilize minority, female, disabled and covered veteran individuals at all levels of the workforce. Ecolab is a place where you can grow your career, own your future and impact what matters.

We will consider for employment all qualified applicants, including those with criminal histories, in a manner consistent with the requirements of applicable state and local laws, including the City of Los Angeles' Fair Chance Initiative for Hiring Ordinance and the San Francisco Fair Chance Ordinance.

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