



H2Ok Innovations Hardware Engineering Position

[H2Ok Innovations](#) is an IoT-enabled operating system for manufacturing and supply chain, focused on industrial liquid and fluid systems. Liquid systems are at the heart of industrial manufacturing, but current methods of managing these fluid systems are highly inefficient, relying on manual grab sampling as the most widely used technique. This results in a lack of data and visibility, causing excessive resource and operating costs, as well as inefficient operations. At H2Ok Innovations, we are rethinking this approach, with our comprehensive OS system consisting of a network of our commodity sensors, coupled with our secure dual-communication edge transmission gateway, and ML-based process optimization software. We are building an operating system to bridge OT (operational technology) and IT (information technology) in manufacturing and supply chain, enabling digital solutions to function reliably, viably, and securely in industrial environments. We believe in unlocking previously untapped data for our customers— who comprise society's most fundamental sectors— to enable them to gain a competitive advantage in the way they operate and bringing [Industry 4.0](#). At H2Ok Innovations, we are servicing major customers including multiple Fortune 500 enterprises and backed by Construct Capital, 2048 Ventures, Flybridge Capital, 1517 Fund, Techstars, and more. H2Ok Innovations is based out of Greentown Labs— one of the top cleantech technical communities in the world.

Job description: you will be assigned to a combination of projects tailored to what best fits your interests and skillsets

Design:

- Exposure to CAD design of mechanical housings, electronic/circuit design, and simulation programs/system setups
- Hands-on experience with managing supply chain from parts and materials selection to sourcing
- Working on projects both on feature development, as well as direct customer deployments
- Available project fields in mechanical and sensor design, circuit and PCB design, data communication and transmission, thermal and fluid analysis, electrical configuration, optics, and more.

Machining and Fabrication:

- Hands-on exposure to machine and assemble parts for sensors to be deployed with customers and for internal testing in a machine shop using mills, laser cutters, 3d printers, bandsaws, hand tools, etc.
- Exposure to working with clients and delivering customer deployments

Testing and sensor research:

- Hands-on work conducting experiments for testing the reliability, accuracy, and effectiveness of newly developed spectral sensors and QA/QC of product using customer field samples
- Conducting rudimentary analysis of collected data and driving insights on team decisions for hardware design
- Communicate with and provide feedback to the team in developing new sensing capabilities to be used in real world customer problems.

Overall:

- Work independently on a team tackling a rapidly changing set of cross-disciplinary projects involving mechanical & electrical components design, software development, and rapid prototyping.
- Exposure to working with hardware from inception to post-deployment

Qualifications:

- Ability to work successfully in a fast paced team environment/product iteration cycle
- High attention to detail, dedicated and hard working, thorough, consistent
- Excited, positive, and driven attitude toward work, go-getter mentality, taking initiative
- Motivated, driven, startup founder mindset, desire to drive positive change in the world
- Willingness for hands-on work directly with customer field samples
- Interest in operating or learning how to operate machine shop tools
- Proficiency with CAD (SolidWorks or similar program)
- Proficiency in Python, C, and Arduino/microcontroller programming or interest in learning
- Optional/preferred: experience in circuits and PCB design is a plus
- Interested in sustainability space and in a startup environment

Location: Greater Boston Area in Somerville, MA at Greentown Labs

- Full-time position with competitive compensation

Contact:

Please send an email with the role/position you are applying for in the subject line and include your resume, description about yourself, start date, and other relevant info/materials to careers@h2okinnovations.com, and CC annie@h2okinnovations.com, david@h2okinnovations.com, and joseph@h2okinnovations.com on it.