



Detecting Pathogens at the Speed of Light

Diagnostic Device Hardware Engineer Internship

Summer 2020

PathSensors, Inc., a growing biotechnology company headquartered in Baltimore, Maryland. The company develops products for the rapidly evolving field of pathogen detection. We are currently seeking qualified candidates for a Diagnostic Device Hardware Engineering Intern position. The successful candidate will be responsible for working with the PathSensors' Engineering, Development, and Commercial teams to develop or enhance the diagnostic systems used with the company's exclusive CANARY® biosensor technology.

Company:

PathSensors, Inc. develops and manufactures systems for the rapid detection and identification of bacteria, viruses, and toxins. The company's CANARY® technology utilizes a unique cell-based biosensor for pathogen detection. The technology is currently deployed for a wide range of biodefense, food and plant pathogen test applications. In addition, the company is constantly expanding its range of product markets, including the development of assays for emerging pathogens and emergency diagnostics. For more information, visit: <http://www.pathensors.com>.

Job Description:

Applicants must be able to work both independently, and as part of a team, on assigned projects and assist others in laboratories and engineering projects as needed. Position responsibilities may include the following:

1. Prototyping of a new and portable diagnostic system for the PathSensors CANARY® detection technology.
2. Design, conduct, and evaluate experiments on the components and completed prototype of the new diagnostic system.
3. Update current documents and files pertaining to hardware drawings of current and new PathSensors' devices in CAD and SolidWorks.
4. Create, test, and evaluate the device software used in the new PathSensors diagnostic system.

The assigned project will be determined by the candidate's qualifications and interests.

Qualifications:

1. Experience with hardware device development (concept, design, build, test and evaluating prototypes).
2. Experience using CAD and SolidWorks for 3D models of mechanical, wiring, and PCB design documents.
3. Experience using Microsoft Office products, mainly Excel, PowerPoint, and Word.
4. Ability to think critically and create solutions to engineering problems.



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5. Ability to help design experiments, interpret data, and prepare final reports.
6. Ability to work in a team environment.
7. Highly organized, able to manage workflow, and multi-task between multiple projects.
8. Experience using project management software preferred.
9. High attention to detail.
10. Ability to work in a BSL-2 facility.
11. Experience writing scripts and GUI applications in Python (optional).

Applicants should submit a resume and cover letter to the Johns Hopkins University Handshake posting for the specified position when it becomes available in early January 2020.