



## ***Biodefense Internship Program***

**Orion Integrated Biosciences Inc.** is a **Biodefense Company** advancing new analytical, and visualization tools for the detection, characterization and mitigation of infectious diseases and the interpretation and contextualization of Big Data for Biodefense.

Our activities focus in ***strengthening national security*** by supporting the Department of Homeland Security through **DHS Centers of Excellence** (e.g., the DHS Center of Excellence for Emerging and Zoonotic Animal Diseases, CEEZAD), the US Department of Defense and the US Department of Agriculture USDA-APHIS.

Part of the mission of **Orion Integrated Biosciences Inc.** is the establishment of a Biodefense Internship Program for junior computer scientists and software engineers to strengthen the next generation workforce in the areas of bioscience and national security.

### **Eligibility Requirements**

- US citizens.
- Bachelor Degree in Computer Science, Engineering or a related technical discipline, or the equivalent combination of education, technical training, or work/military experience.
- Pursuing, or have obtained a Bachelor Degree in Computer Science
- Have a cumulative GPA of 3.3 or higher.

### **Preferred Technical Experience**

- Java, JavaScript based frameworks including **D3**, WebGL, CSS, HTML 5 and Qt
- Proficiency with C/C++, **Python**, code integration, performance benchmarking, and optimization of scientific models.
- Experience with the development of WebApps to create, run, and display Big Data analytics and simulation results.
- Experience with programming support on remote and local High Performance Computing (HPC) clusters.
- Experience with **PostgreSQL, Hadoop, MongoDB and/or NonSQL**
- Capable of integrating and testing of secure operating system environments.
- Proficient in the development of **mobile applications**.

### **Contact Information**

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