Software Internship, ATP Division

Job ID: 2023-3870

Overview:

Being on the BlueHalo team means working alongside the brightest minds in technology on the toughest challenges facing our nation – not just every once in a while, but every single day. Together, we are leading the transformation of modern warfare and each BlueHalo employee plays a key role. That’s why our investment in you goes beyond a rewarding salary and benefits package. We’re committed to providing our people with the best opportunities to develop their skills, share their knowledge, and push their innovative ideas to the cutting-edge. Having fun doing it with a team that feels like family all across BlueHalo Nation is the ultimate perk. From Space and Directed Energy to Cyber and Intelligence to C4ISR and Air & Missile Defense, there is no limit to where you can take your career with us. Are you ready to launch a career at BlueHalo?

**Responsibilities:**

The applicant will work with a cross-disciplinary team to perform activities associated with the design, development, and implementation of software for diverse space oriented scientific and engineering applications**.** A qualified applicant will be required to participate in the formulation of analytical and machine learning solutions to complex data problems by creating physics-based and Machine Learning based models as well as determining project specific data metrics for model evaluation.

The ability to create physical, statistical and machine learning methods to build descriptive and predictive models as well as document the methods are a must for any potential applicants.

**Essential Functions:**

* Analytical thinker with strong conceptual and problem-solving skills.
* Follow programming best practices.
* Attention to detail and communication skills.
* Work with a cross-disciplinary group to solve complex problems using physics, mathematics/statistics, and machine learning models.
* Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions

**Required Education and Experience**

Master’s degree in Applied Mathematics, Electrical Engineering, or similar field

Experience:

* 1 + year experience with machine learning techniques (Neural Networks and/or linear algebra-based methods)
* Mathematical Applications to Physics
* Data Analytics
* Statistics background
* Programming skills at least one of the following: Python, C, C++, R, Julia, and Rust

**Preferred Education and Experience:**

* 2 + year experience with machine learning techniques (Artificial Neural Networks, Spiking Neural Networks and/or linear algebra-based methods)
* Ph.D. in Applied Mathematics, Electrical Engineering, or similar field experience
* Computational Neuroscience and/or Mathematical Biology
* Dynamical Systems Theory/Nonlinear Dynamics
* Information Theory
* Nonlinear signal/data processing
* Amazon Web Services, cloud-based computing
* Programming skills at least two of the following: Python, C, C++, R, Julia, and Rust
* Experience with Machine learning frameworks such as PyTorch, ONNX, and/or other ML frameworks

Apply Directly at:

<https://careers-bluehalo.icims.com/jobs/3870/software-internship%2c-atp-division/job>

**Gabriela R Gutiérrez (Gaby) | Senior Technical Recruiter**

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