Artificial Intelligence / Machine Learning Research and Development Engineer

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Type: Full-Time
Salary: $76,700 - $129,500 per year
Category: Laboratory and Research; +1 Software Engineer/Programmer

Job Number: REQ_0000055146

JOB DESCRIPTION AND POSITION REQUIREMENTS:

The Cyber Innovation, Analytics, and Operations Department within the Information Advantage Office (IAO) at the Applied Research Laboratory (ARL) at Penn State is looking for talented, experienced, and highly motivated Data Scientists to assist in providing its customers with state-of-the-art solutions. In this position you will research, develop, and deliver algorithmic, machine learning, and artificial intelligence based approaches to solve complex sponsor problems.

ARL is an authorized DoD SkillBridge partner and welcomes all transitioning military members to apply.

You will:

- Design, develop, and research machine learning systems, models, and schemes
- Study, transform, and apply state-of-the-art machine learning prototypes to sponsor specific domains collection and data modeling
- Visualize data for deeper insights
- Generate and present technical research reports and briefings
- Performing statistical analysis in support of pattern of life and anomaly detection
- Build high quality software prototypes integrated with our various research and pre-production software environments

The selected candidates will assume a technical role and will interact with other ARL staff and sponsors, spending a majority of the time working in a classified environment in Annapolis Junction, MD, State College, PA or Reston, VA. Periodic travel to sponsor sites may be required.

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This position can be filled at multiple levels, depending upon your education and experience. Minimally requires a Bachelor's degree in an Engineering or Science discipline. Additional experience and/or education are required for higher level jobs. A Master's degree is preferred.

Additional responsibilities of higher level positions include:

- Supervise the work of lower level staff and undergraduate student
- Perform tasks of a larger scope and lead specific tasks within the project scope

Experience in the following is required:

- Data science/algorithm development
- Data science / Machine Learning languages, to include Python
- Research, development, and implementation of machine learning models

Experience in the following is preferred:

- Training and optimizing ML algorithms on GPU hardware architectures, specifically NVIDIA based
- Statistics, linear algebra, and data structures
- Exploratory data analysis and visualization
- Data science / Machine Learning tools to include Pandas, PyTorch/TensorFlow, NumPy, MatPlotLib, SQL, FastAPI
- Software Development tools to include Git, Docker, Kubernetes, SSH
- Active TS/SCI Clearance

ARL at Penn State is an integral part of one of the leading research universities in the nation and serves as a University center of excellence in defense science, systems, and technologies with a focus in naval missions and related areas.

You will be subject to a government security investigation, and you must be a U.S. citizen to apply. Employment with the ARL will require successful completion of a pre-employment drug screen.

*****The proposed salary range may be impacted by geographic differential.*****

The salary range for this position, including all possible grades is:

$76,700.00 - $129,500.00
Salary Structure - additional information on Penn State's job and salary structure.

University Park, PA

Penn State is an equal opportunity, affirmative action employer, and is committed to providing employment opportunities to all qualified applications without regards to race, color, religion, age, sex, sexual orientation, gender identify, national origin, disability or protected veteran status. If you are unable to use our online application process due to an impairment or disability, please contact 814-865-1473.

Pursuant to the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act and the Pennsylvania Act of 1988, Penn State publishes a combined Annual Security and Annual Fire Safety Report (ASR). The ASR includes crime statistics and institutional policies concerning campus security, such as those concerning alcohol and drug use, crime prevention, the reporting of crimes, sexual assault, and other matters. The ASR is available for review here.

Related Searches:

- Laboratory and Research

- Software Engineer/Programmer

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