Artificial Intelligence / Machine Learning Research and Development Engineer

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Penn State
in Reston, PA

Apply Now

Type: Full-Time
Salary: $109,300 - $219,600 per year
Posted: 31 days ago
Category: Laboratory and Research



Job Number: REQ_0000072893

Approval of remote and hybrid work is not guaranteed regardless of work location. For additional information on remote work at Penn State, see Notice to Out of State Applicants.

POSITION SPECIFICS

We are seeking highly motivated Research and Development Engineers to join our Computational Intelligence and Visualization Application Department of the Applied Research Laboratory (ARL) at Penn State. You will assist in providing customers with state-of-the-art visualization and decision support. The primary focus will be researching and developing feasible algorithmic solutions to our sponsor's complex problems given large sets of multivariate data.

Located in State College, PA or Reston, VA

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

You will:

- Design and implement machine learning systems, models, and schemes
- Research and apply state-of-the-art machine learning prototypes to sponsor specific domains
- Search and select appropriate data sets before performing data collection and data modeling
- Visualize data for deeper insights
- Generate and present technical research reports and briefings
- Perform statistical analysis in support of pattern of life and anomaly detection
- Perform data fusion and correlation
- Build high quality software prototypes integrated with our various research and pre-production software environments
- Collaborate with other ARL staff and sponsors
- Supervise the work of lower-level staff and undergraduate student
- Perform tasks of a larger scope and lead specific tasks within the project scope

Required skills/knowledge includes:

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

Preferred skills/knowledge includes:

- Active TS/SCI Clearance
- Master's degree
- Training and optimizing ML algorithms on GPU hardware architectures, specifically NVIDIA based
- Working with geo-spatial data
- Statistics, multivariable calculus, and linear algebra
- Exploratory data analysis and visualization
- Data science / Machine Learning tools to include Pandas, PyTorch/TensorFlow, NumPy, MatPlotLib, PostGreSQL, FastAPI
- Software Development tools to include Git, Docker, Kubernetes, SSH

Your work location will be on-site State College PA or Reston, VA in a classified environment

MINIMUM EDUCATION, WORK EXPERIENCE & REQUIRED CERTIFICATIONS

If filled as Research and Development Engineer - Principal Professional, this position requires:
Bachelor's Degree - Engineering or Science
19+ years of relevant experience
Required Certifications:
None

If filled as Research and Development Engineer - Advanced Professional, this position requires:
Bachelor's Degree - Engineering or Science
5+ years of relevant experience
Required Certifications:
None

If filled as Research and Development Engineer - Senior Professional, this position requires:
Bachelor's Degree - Engineering or Science
14+ years of relevant experience
Required Certifications:
None
ARL's purpose is to research and develop innovative solutions to challenging scientific, engineering, and technology problems in support of the Navy, the Department of Defense (DoD), and the Intel Community (IC).

FOR FURTHER INFORMATION on ARL, visit our web site at www.arl.psu.edu.

BACKGROUND CHECKS/CLEARANCES

Employment with the University will require successful completion of background check(s) in accordance with University policies.
All positions at ARL require candidates to possess the ability to obtain a government security clearance; you will be notified during the interview process if this position is subject to a government background investigation. You must be a U.S. citizen to apply.
Employment with the ARL will require successful completion of a pre-employment drug screen.

SALARY & BENEFITS

The salary range for this position, including all possible grades, is $109,300.00 - $219,600.00.**THE PROPOSED SALARY RANGE MAY BE IMPACTED BY GEOGRAPHIC DIFFERENTIAL**
Salary Structure - Information on Penn State's salary structure

Penn State provides a competitive benefits package for full-time employees designed to support both personal and professional well-being. In addition to comprehensive medical, dental, and vision coverage, employees enjoy robust retirement plans and substantial paid time off which includes holidays, vacation and sick time. One of the standout benefits is the generous 75% tuition discount, available to employees as well as eligible spouses and children. For more detailed information, please visit our Benefits Page.

CAMPUS SECURITY CRIME STATISTICS

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.

EEO IS THE LAW

Penn State is an equal opportunity employer and is committed to providing employment opportunities to all qualified applicants without regard to race, color, religion, age, sex, sexual orientation, gender identity, 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.

Federal Contractors Labor Law Poster

PA State Labor Law Poster

Penn State Policies

Copyright Information

Hotlines

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.

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Related Searches:

Laboratory and Research

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