Postdoctoral Scholar - ATLAS and A3D3

The Department of Physics at the University of Washington invites applications for a post-doctoral scholar position beginning Summer 2024.

The successful candidate will work on the ATLAS experiment at the LHC and A3D3 Institute with Professor Shih-Chieh Hsu, collaborating with the UW Elementary-Particle-Experiment (EPE) group, and will be based at CERN.

The UW EPE group consists of five professors, three research scientists, three post-docs, and seven graduate students working on the ATLAS experiment at the LHC. Our physics interests are focused on electroweak symmetry breaking and searches for physics beyond the standard model, especially Long-lived particles and dark sectors in the ATLAS detector. Our analyses already include aspects of Artificial Intelligence (AI) and we are looking to further our investment in AI. Our group is a founding member of the NSF A3D3 institute (Accelerated Artificial Intelligence Algorithms for Data-Driven Discovery, https://a3d3.ai/). We are developing HLS4ML (High Level Synthesis for Machine Learning, https://github.com/fastmachinelearning/hls4ml) for low latency AI inference applications with FPGA and ML-as-a-Service framework for high throughput computing with GPU. The successful candidate will spend 50% FTE on pursuing physics in Run 3 using ATLAS data, and the other 50% FTE on accelerating AI algorithms for the ATLAS Phase 2 Upgrade.

The position is a full-time, 24-month (two-year) appointment, which may be extended (upon successful performance), subject to funding and mutual agreement. The Postdoctoral Scholar title is limited to five years, including postdoctoral experience(s) at UW and other institutions.

The base salary range for this position is $5705-$7416 per month, commensurate with experience and qualifications, or as mandated by a U.S. Department of Labor prevailing wage determination.

Postdoctoral Scholars are represented by UAW 4121 and are subject to the collective bargaining agreement, unless agreed exclusion criteria apply. For more information, please visit the University of Washington Labor Relations website (https://hr.uw.edu/labor/academic-and-student-unions/uaw-postdocs/uaw-postdoc-contract)

Qualifications

The successful applicant should have a Ph.D., or foreign equivalent, by date of appointment and be interested in contributing to both the physics and AI application program. Experience with the C programming language is recommended, and experience with AI is an advantage

Application Instructions

Applications should be submitted at https://apply.interfolio.com/137306 and consist of a CV, a short research statement, a statement describing the applicant's experience and commitment to diversity, equity and inclusion, and three letters of recommendation. Applications received by

January 31, 2024, will receive full consideration. Please contact Prof. Shih-Chieh Hsu (schsu@uw.edu) with any questions.

Equal Employment Opportunity Statement

University of Washington is an affirmative action and equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, creed, religion, national origin, sex, sexual orientation, marital status, pregnancy, genetic information, gender identity or expression, age, disability, or protected veteran status.

Benefits Information

A summary of benefits associated with this title/rank can be found at https://hr.uw.edu/benefits/benefits-orientation/benefit-summary-pdfs/. Appointees solely employed and paid directly by a non-UW entity are not UW employees and are not eligible for UW or Washington State employee benefits.

Commitment to Diversity

The University of Washington is committed to building diversity among its faculty, librarian, staff, and student communities, and articulates that commitment in the UW Diversity Blueprint (http://www.washington.edu/diversity/diversity-blueprint/). Additionally, the University's Faculty Code recognizes faculty efforts in research, teaching and/or service that address diversity and equal opportunity as important contributions to a faculty member's academic profile and responsibilities (https://www.washington.edu/admin/rules/policies/FCG/FCCH24.html#2432).

Privacy Notice

Review the University of Washington Privacy Notice for Demographic Data of Job Applicants and University Personnel to learn how your demographic data are protected, when the data may be used, and your rights.

Disability Services

To request disability accommodation in the application process, contact the Disability Services Office at 206-543-6450 or dso@uw.edu.