



PennState



Multiple Tenure Track Positions in the Department of Computer Science and Engineering, Penn State

JOB DESCRIPTION AND POSITION REQUIREMENTS:

Applications are invited for multiple tenure-track positions at the Assistant, Associate and/or Full Professor levels across all areas of Computer Science and Engineering (CSE), at The Pennsylvania State University, University Park campus. The department has hired 20 faculty in the last four years (13 in the last two years) and aims to continue its rapid growth across different areas over the coming years. Computer Science and Engineering welcomes diversity among its workforce and works within the Penn State community to address special considerations, as needed. We are particularly looking to fill multiple positions in:

- Theory: All areas.
- Computer Security: All areas of computer security will be considered, including software security, systems and hardware security, network security, and applied cryptography. We especially encourage senior candidates to apply. We offer a top ranked security research environment (as per csrankings.org) across these disciplines.
- Architecture/Systems: Candidates working at all layers of the systems and architecture stack, as well as emerging areas such as quantum computing and AI accelerators, will be considered. We offer unique collaboration opportunities with faculty spanning both computer science and computer engineering in one unified department. Candidates who work in quantum computing will also have a chance to work with research groups from physics and materials science departments.
- Cyberinfrastructure: This is a targeted joint hire between CSE and Institute for Computational and Data Sciences (ICDS [1]) at Penn State. ICDS offers unique opportunities in conducting novel research in every aspect of next-generation AI/ML-driven cyberinfrastructure and applying research ideas to practical settings ICDS offers. Candidates whose expertise lies in the nexus of ML/AI, datacenter architecture, and HPC applications will be considered. We are looking for candidates who are interested in (i) applying ML techniques to smart cyberinfrastructure management or (ii) enhancing cyberinfrastructure to host ML-based workloads more efficiently, e.g., high-performance data analytics. We will also consider candidates who focus on domain-specific software infrastructures targeting areas, such as biology and astrophysics.
- Robotics: All areas will be considered, including planning, control, lifelong learning, sensing, etc. There exist many collaboration opportunities with our computer vision and NLP groups, as well as with other departments in the College of Engineering.

Applicants should submit a detailed curriculum vita listing all publications, research and teaching statements, and the names and email addresses of four references. In addition to submitting the Penn State application, an application must be submitted at <https://academicjobsonline.org/ajo/jobs/23484>. In order to be considered, candidates must apply on both sites. Please note that the Department of Computer Science and Engineering jobs are posted under Multiple Tenure Track Positions in the Department of Computer Science and Engineering, Penn State. Applications will be reviewed starting November 15, 2022 and continue until the positions are filled.

Applicants must hold a Ph.D. in Computer Science or closely related field by the start date and should be committed to excellence in both research and teaching. The Assistant Professor must have demonstrated the ability as a teacher or research worker; and must have shown definite evidence of growth in scholarly or professional achievement. Those considered for the Associate and full Professor levels must have established a national/international track record of excellence in scholarship and research. The Associate Professor should possess the same qualifications as the Assistant Professor but must also provide evidence of an established reputation in scholarly or professional achievement. The Professor should possess the same qualifications as the Associate Professor but must also provide evidence of a substantial record of advanced research and/or creative work, and of leadership in their field of specialization.

Our department, and the University as a whole, provides unusually rich collaboration opportunities due to a large, diverse range of colleges and departments, numerous venues for inter-departmental colloquia and the like, and excellent internal support for successful grantsmanship. We expect our hires to establish a strong research program, supervise graduate and undergraduate students, and teach relevant undergraduate and graduate courses. Penn State is a premier public research, land grant university. The Department of Computer Science and Engineering is a part of the School of EECs in the College of Engineering. We are looking for candidates who will add to the department's diverse culture and research strengths. Penn State is committed to and accountable for advancing diversity, equity, and inclusion in all of its forms. We value inclusion as a core strength and an essential element of our public service mission.

The University is located in State College, which is ranked one of the best college towns in the U.S. The area offers a wide variety of cultural and outdoor recreational activities, and outstanding University events, from collegiate sports to fine arts productions. The public-school system is excellent, with a nationally ranked high school by U.S. News and World Report.

[1] The Institute for Computational and Data Sciences (ICDS), one of five university-wide interdisciplinary institutes, is home for advanced interdisciplinary computation and data-enabled collaborative science at Penn State. ICDS fosters both high-impact computational and data science methodologies as well as their applications to address a broad range of scientific and societal challenges, multifaceted models, and their societal impacts. ICDS supports a vibrant community of scholars, which includes more than 40 co-hired faculty and over 300 affiliated researchers with access to ICDS advanced research computing infrastructure and a cadre of technical experts, research scientists, and engineers. ICDS also works together with four AI centers located in University Park campus.

Apply online at: <https://aptrkr.com/3607467>

CAMPUS SECURITY CRIME STATISTICS: For more about safety at Penn State, and to review the Annual Security Report which contains information about crime statistics and other safety and security matters, please go to <http://www.police.psu.edu/clery/>, which will also provide you with detail on how to request a hard copy of the Annual Security Report.

Penn State is an equal opportunity, affirmative action 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.