

Assistant Professor - Software and Data Engineering
Technology
New Jersey Institute of Technology (NJIT)

Direct Link: <https://www.AcademicKeys.com/r?job=246786>

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Posted Oct. 9, 2024, set to expire Feb. 5, 2025

Job Title	Assistant Professor - Software and Data Engineering Technology
Department	School of Applied Engineering and Technology
Institution	New Jersey Institute of Technology (NJIT) Newark, New Jersey
Date Posted	Oct. 9, 2024
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Assistant Professor
Academic Field(s)	Computer Engineering Computer Science
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Job Description

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Assistant Professor - Software and Data Engineering Technology

Department:

School of Applied Engr & Tech

Reports To:

Department Chair, School of Applied Engr & Tech

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Position Type:

Faculty

Position Summary:

The School of Applied Engineering and Technology (SAET) of the Newark College of Engineering at the New Jersey Institute of Technology (NJIT) invites applications for a tenure-track Assistant Professor position in Software and Data Engineering Technology (SDET). By the time of appointment, the successful candidate must have earned a Ph.D. (or equivalent) degree, with a record of pertinent high-quality research in a related engineering field.

Essential Functions:

- The successful candidate is expected to teach undergraduate (and occasionally, graduate) Software and Data Engineering Technology (SDET) courses in the School of Applied Engineering and Technology (SAET).
- The candidate is expected to engage in research, advise graduate students (M.S. and Ph.D.), produce technical publications in peer reviewed journals and conference proceedings, and obtain grant funding. Areas of research and academic interest of particular relevance include:
 - *Applied Informatics/Analytics*: With the proliferation of large, open-source datasets, modern computational software, and novel methods for unstructured data mining, the field of Informatics is being reimaged. Application of informatics can include medical, bio, health, energy, and materials informatics. Candidates whose research includes machine learning will be strongly considered.
 - *Artificial Intelligence & Machine Learning*: Research areas to include advanced applications of AI and machine learning, novel AI algorithms and architectures, and software engineering principles for AI systems (including topics in scalability, robustness, fairness, and verification). Areas of applications can include medicine, health sciences, materials, cybersecurity, cyber-physical systems, human-machine systems, IoT and edge computing, autonomous systems, energy and the built environment, climate science, advanced manufacturing, critical infrastructure and supply chain management, the arts, and life sciences and systems biology.
 - *Digital Twin and Physics Based Simulation Software*: Digital Twins are becoming an important technology applied to several industry areas including product design, manufacturing, and construction. Research areas include advanced applications of physics based simulation software, sensor simulation, robotics simulation, human-autonomous agent interaction, and autonomous vehicle simulation. Areas of applications can include automotive, construction, aerospace, robotics, manufacturing, product development, health and medicine, and supply chain management.

Prerequisite Qualifications:

- By the time of appointment, successful candidates must have earned a Ph.D. (or equivalent) degree,



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with a record of pertinent high- quality research in a related engineering field.

- At the university's discretion, the education and experience prerequisites may be exempted where the candidate can demonstrate to the satisfaction of the university, an equivalent combination of education and experience specifically preparing the candidate for success in the position.

Preferred Qualifications:

Applicable industrial experience and prior teaching experience are highly desirable.

Bargaining Unit:

PSA

FLSA:

Exempt

Full-Time

Special Instructions to Applicants:

Rank and salary will be commensurate with qualifications and experience. Applications must include a curriculum vitae, cover letter, research and teaching statements, and list of three (3) professional references. Questions may be directed to the department interim chairperson, Dr. Samuel Lieber at samuel.lieber@njit.edu.

EEO Statement:

As an EEO employer, NJIT is committed to building a diverse and inclusive teaching, research, and working environment and strongly encourages applications from individuals with disabilities, minorities, veterans, and women.

Diversity Statement:

As a Minority Serving Institution with designations as an Asian American and Native American Pacific Islander Serving Institution (AANAPSI) and Hispanic Serving Institution (HSI), NJIT is committed to embracing diversity, centering equity, and practicing inclusion with the goal of sustaining a culture of belonging. NJIT celebrates the diversity of our university community and recognize the cultural and personal contributions each member of the community brings to NJIT. We strive to cultivate a campus culture that promotes inclusive excellence among our faculty, staff, students, and external partners. Sustaining and building upon our diverse community is critical to NJIT's continuing status as a premier research institution of higher education and a leading polytechnic university.

To apply, visit <https://njit.csod.com/ux/ats/careersite/1/home/requisition/7513?c=njit>



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Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

School of Applied Engr & Tech
New Jersey Institute of Technology (NJIT)

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