

Research Faculty in Generative Artificial Intelligence Southern Methodist University

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Posted Jan. 2, 2025, set to expire Apr. 20, 2025

Job Title	Research Faculty in Generative Artificial Intelligence
Department	O'Donnell Data Science and Research Computing Institute https://www.smu.edu/provost/odonnell-institute
Institution	Southern Methodist University Dallas, Texas
Date Posted	Jan. 2, 2025
Application Deadline	Feb. 15, 2025
Position Start Date	Jul. 1, 2025
Job Categories	Research Professor
Academic Field(s)	Computer/Information Sciences
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Job Description	

Description

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The rapid evolution of Machine Learning (ML) and Artificial Intelligence (AI) is reshaping industries and societies. A specific research area of SMU's O'Donnell Data Science and Research Computing Institute (ODSRCI) is the development and exploration of generative AI systems. The research faculty in generative AI will help position SMU as a respected leader in AI/ML. The ODSRCI was recently created to enhance data science and AI/ML research across SMU campus, enabled by state-of-the-art HPC infrastructure, including an AI-supercomputer (NVIDIA SuperPOD). In particular, the research scientist will help SMU in advancing generative AI methods that create real-world impact. Collaboration on research projects applying generative AI in diverse areas such as AR/VR technologies, computer vision, urban sciences, and biotechnology is highly encouraged.

The research faculty will design and implement novel, large scale generative AI methods. He/she will collaborate with SMU researchers seeking to scale-up AI/ML applications on HPC platforms. The research faculty will also provide technical mentorship and guidance to students, identify external funding opportunities, assist in preparing multi-disciplinary proposals, and prepare technical reports/papers for publication in journals and conferences.

SMU is a nationally ranked, private, non-sectarian research institution located in one of the nation's fastest growing metropolitan areas. Research faculty are part of an inclusive and intellectually vibrant community of internationally recognized scholars across the humanities, social sciences, mathematical sciences, engineering, and business. We offer the rare confluence of a comprehensive global research institution and a close-knit intellectual enterprise in the liberal arts tradition.

SMU's Second Century Campaign was the largest fundraising initiative in SMU's history, raising \$1.15 billion by the end of 2015 and a new \$1.5 billion campaign, SMU *Ignited*, has begun. Dallas/Fort Worth Metroplex is a culturally rich arts and global business center and is home to many universities, arts organizations and Fortune 500 corporations. Explore the O'Donnell Data Science and Research Computing Institute at <https://www.smu.edu/provost/odonnell-institute> and SMU at <http://www.smu.edu>.

Qualifications

Required qualifications include a Ph.D. in computer science or a related field and a strong knowledge of the theory and practice of generative AI. Other requirements are hands-on experience in scientific computing, high-performance computing, parallel programming, deep learning, and rapid prototyping environments such as Python. Knowledge of common machine learning frameworks such as PyTorch is required. Experience with CUDA is a plus.

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Application Instructions

Applications must be submitted electronically via Interfolio (<http://apply.interfolio.com/160724>) and should include a cover letter discussing research interests and projects; a current curriculum *vitae*; and at least three letters of recommendation. To ensure full consideration for the position, the application packet must be received by February 15, 2025 but the committee will continue to accept applications until the position is filled. All applications will be acknowledged. SMU is an equal opportunity employer. We particularly welcome applications from minority and women scholars. Hiring is contingent upon the satisfactory completion of a background check. Anticipated start date is July 1, 2025.

EEO/AA Policy

SMU will not discriminate in any program or activity on the basis of race, color, religion, national origin, sex, age, disability, genetic information, veteran status, sexual orientation, or gender identity and expression. The Assistant Vice President for Access and Equity/Title IX Coordinator is designated to handle inquiries regarding nondiscrimination policies and may be reached at the Perkins Administration Building, Room 204, 6425 Boaz Lane, Dallas, TX 75205, 214-768-3601, accessequity@smu.edu.

Contact Information

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

Contact