

Multiple PhD and Postdoc Positions Southern Methodist University

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Posted Jul. 24, 2024, set to expire Nov. 23, 2024

Job Title	Multiple PhD and Postdoc Positions
Department	Mechanical Engineering https://www.smu.edu/lyle/departments/me
Institution	Southern Methodist University Dallas, Texas
Date Posted	Jul. 24, 2024
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Graduate Student Post-Doc
Academic Field(s)	Mechanical Engineering Material/Metallurgy Energy Technology Chemical/Petroleum
Apply By Email	
Job Description	

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The *Nanomaterials and Energy Systems Laboratory (NESL)* seeks highly motivated PhD and Postdoc applicants with an interest in electrochemical energy conversion and storage systems, materials science, and electrochemistry. In particular, we are looking for candidates with a strong background in three-electrode electrochemical systems to perform independent experiments and characterization for hydrogen transport and CO₂ capture and conversion. Other activities in NESL include novel cathode and anode materials, as well as state-of-the-art solid-state electrolytes, that can be used in a plethora of battery systems such as Li-air, Li-CO₂, Li/Na-ion, and more. The positions are fully funded by DOE and ARPA-E grants, offering the opportunity to collaborate with a strong multidisciplinary team of engineers, computational scientists, and more. The starting date is immediate.

Required qualifications:

- PhD/Master/Bachelor degree in chemical engineering, mechanical engineering, materials science, electrochemistry, or any related field.
- Hands-on experience in electrochemical measurements, including the operation of necessary equipment and instruments (such as potentiostats, three-electrode cells, flow cell system, gas chromatography, NMR, etc).
- For PhD applicants, meet admission requirements for the PhD program in the Lyle School of Engineering

[\[Link\]](#).

Interested applicants should email a brief cover letter and CV to:

Dr. Amin Salehi-Khojin

William T. Solomon Professor and Chair of Mechanical Engineering Department

Lyle School of Engineering

Southern Methodist University

Dallas, TX 75205, USA

Email: asalehikhoin@mail.smu.edu

About SMU and Dallas:

Southern Methodist University (SMU) is a prestigious private university located in Dallas, Texas. It is ranked among the top 100 universities in the US and offers a comprehensive campus and a multidisciplinary engineering program that can enhance engineering skills in various fields. SMU is situated in one of the largest cities in USA, thus providing numerous opportunities for under- and post-graduates to start their careers in engineering fields. Dallas is one of the top-ranked cities for cultural diversity and economic opportunity, and offers a unique combination of urban sophistication and

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southern hospitality.

Contact Information

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

Contact Dr Amin Salehi-Khojin
Mechanical Engineering
Southern Methodist University
Dallas, TX

Contact E-mail asalehikhoin@mail.smu.edu