



Seeking: Tenure/Tenure Track Faculty Member in Soft Matter

Applications Due September 30, 2021

The Department of Materials Science and Engineering (MSEN), at Texas A&M University invites applications for an open-rank tenured, or tenure-track faculty position with a projected start date of September 1, 2022. The successful applicant will have demonstrated excellence in either computational or experimental materials science (or a closely related field) and will build a dynamic and internationally recognized research program in the area of soft materials or biomaterials, broadly defined. Looking for specific focus on multifunctional soft materials and/or biomaterials with excellence in:

- Experimental nanomaterials characterization and structure-property relations
- Computational materials science from ab-initio to continuum methods

Faculty candidates should have multidisciplinary backgrounds in dynamic research programs across several fields, such as polymer synthesis and processing, structure-property relationships, biomedical materials and devices, sensors, wearable electronics, simulation, modeling, and artificial intelligence.

As a new faculty member in our department, the successful candidate will be an integral contributor to growing the discipline of materials science and engineering, drive new research directions, and build a distinctive environment of excellence in scholarship, teaching, and service.

Created in 2013, the Department of Materials Science and Engineering at Texas A&M began with five faculty and is now home to 20 faculty members.

Highlights include:

- Our graduate program ranked 14th by *U.S. News & World Report* among public institutions and 23rd among all institutions in 2022.
- In 2021, first class of undergraduates graduated
- Graduate enrollment ~ 200 students
- Undergraduate program over 150 students

Outstanding facilities to support teaching and research:

- [Zachry Engineering Education Complex](#)
- [Soft Matter Facility](#)
- [Materials Characterization Facility](#)
- [Microscopy and Imaging Center](#)

More Information:

<https://engineering.tamu.edu/materials/>

Apply at:
<http://apply.interfolio.com/89743>

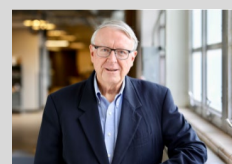
Pentzer named 2021 Rising Star by the American Chemical Society

Dr. Emily Pentzer, associate professor in the Department of Materials Science and Engineering, has received a 2021 Rising Star Award by the American Chemical Society's Woman Chemists Committee. She received the honor for contributions to the field of polymer and materials science, for education of students, and for service to the scientific community.



Unexpected "black swan" defect discovered in soft matter for the first time

An advanced microscopy technique called slice-and-view scanning electron microscopy tomography was used. "This defect is like a black swan — something special going on that isn't



typical," said Dr. Ned Thomas, Erle Nye '59 Chair Professor II, in MSEN. "Although we chose a certain polymer for our

study, I think the twin defect will be fairly universal across a bunch of similar soft matter systems, like oils, surfactants, biological materials and natural polymers. Therefore, our findings will be valuable to diverse research across the soft matter field."

Sukhishvili leads development of interdisciplinary soft matter facility

Dr. Svetlana Sukhishvili, MSEN Professor and Director, leads the only user facility (3,100 sq.ft.) in Texas specifically dedicated to state-of-the-art characterization of soft materials with an emphasis on hierarchically organized multicomponent material systems. The facility enables new discoveries in application areas such as health, homecare, soft robotics, biomanufacturing and environmental protection.

