

# OPPORTUNITIES

TO LIVE, WORK, & STUDY AT KAUST

## Electron Microscopy

### Staff Scientist

The scientist is responsible for providing advanced TEM/SEM application support to facilitate KAUST high impact research. He/she is expected to improve existing practice and develop new methods to improve the equipment performance and tackle challenging scientific problems with users.

He/she is also expected to conduct advanced training to KAUST researchers and outside entities. This position is with a major focus on physical science and a minor focus in life/polymer science.



## Major Responsibilities

- Carry out complex or novel assignments requiring the development of new or improved techniques and procedures. Work is expected to result in the development of new or refined equipment, materials, processes, products, and/or scientific methods and approaches.
- Collaborate with users on challenging scientific problem through novel application of advanced TEM/SEM techniques, which is expected to result in high impact publications.
- Develop expertise in electron crystallography, low dose imaging of beam sensitive materials, EM scripting make them available to advanced users through application notes for high impact research.
- Build up knowledge in the areas of EM Lab's key customers, including catalysis and membrane, to facilitate value-added support.
- Conduct advanced training to advanced users.
- Work with equipment suppliers to solve outstanding equipment and application issues.
- Work with service engineer to ensure assigned equipment high uptime.
- Ensure good laboratory practice and safety in the assigned work area at all times
- Perform routine laboratory duties and maintenance, including administrative, procurement, service on task forces and committees



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King Abdullah University of  
Science and Technology

Learn more about KAUST:  
[www.kaust.edu.sa](http://www.kaust.edu.sa)

Learn more about Core Labs:  
[Corelabs.kaust.edu.sa](http://Corelabs.kaust.edu.sa)



## About King Abdullah University of Science and Technology

Founded in 2009, King Abdullah University of Science and Technology (KAUST) is a top-ranking graduate research university located on the shores of the Red Sea in Saudi Arabia. The University is dedicated to solving global challenges in the areas of food, water, energy, the environment, health and digital. KAUST employees enjoy exceptional packages, including competitive salaries and relocation allowances, fully furnished on-campus accommodation, and comprehensive health insurance coverage. KAUST also provides international schools (IB program) and a wide variety of recreation facilities.

The Core Labs at KAUST is a shared research facility comprised of 12 laboratories run by over 240 staff. Its mandate is to promote the scientific ambitions of KAUST and Saudi Arabia by stewarding and developing state-of-the-art facilities and technical expertise and delivering research support, training, collaboration and services to KAUST faculty, students, researchers and partners.

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## Person Requirements

### Competencies:

- Solid understanding of working principles and strong theoretical background in TEM/SEM.
- Solid knowledge of electron crystallography, preferably with expertise in electron microdiffraction for structure determination.
- Scripting capability is preferred.
- Good general knowledge of materials science and strong capability in catching up new development in novel materials.
- Strong capability to use a wide application of complex principles, theories and concepts in the field of electron microscopy in combination of working knowledge of other related materials science disciplines to provide solutions to a wide range of difficult problems.
- Knowledge in life science is a plus.
- A dedicated and results-oriented team player.

### Qualifications:

- A PhD degree with 5 + years of experience in physics, chemistry, crystallography or materials science with focus in electron microscopy.

### Experience:

- 5 + years' experience in TEM as application scientist or staff scientist in a TEM/SEM dedicated laboratory.



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