OPPORTUNITIES

TO LIVE, WORK AND STUDY AT KAUST

Petroleomics

Staff Scientist

The KAUST Core Labs is seeking a highly motivated analytical chemist to join the Organics team in our state-of-the-art Analytical Chemistry Core Lab (ACL). The lab houses cutting-edge technologies in the disciplines of organics, inorganics, solid state and metabolomics.

The scientist will be using a wide range of analytical techniques related to sample preparation, statistical analysis and data interpretation, and in charge of operating high resolution mass spectrometers and developing cutting-edge methods, workflows and applications. The successful candidate must have extensive and diverse experience in designing and optimizing experimental methods to fit specific needs of the facility users.

The scientist is expected to keep abreast of current scientific developments in the field in order to be able to train and provide technical support to other team members and facility users. ACL is service and support oriented; therefore, it is important that the successful candidate meets deadlines and works effectively both independently and in collaboration with team members, lab users, and service providers.

Major Responsibilities

- Apply advanced analytical techniques (FTICR-MS, GCXGC-TOF, MALDI-TOF, UHPLC-QTOF, GC-MS/MS, GC-FID/SCD/NCD, GPC, HT-GPC) to solve challenging scientific problems.
- Develop and validate new instrumental analytical methods for petroleomics studies to meet the challenges in a multi-user environment.
- Provide training and technical support to staff and lab users including KAUST researchers, students, external collaborators and industry users in his/her main area of expertise.
- Engage in KAUST research projects in the area of petroleomics, fuels, lubricants and polymer characterization that require chromatographic separation and advanced high resolution mass spectrometry.
- Manage major analytical projects for internal and external clients.

Qualifications & Competencies

- A PhD in analytical chemistry, chemical engineering, geochemistry, environmental science or a related field with strong fundamental knowledge of organic analytical chemistry.
- At least 2 to 3 years of experience with in-depth operational knowledge and experience in characterization of small organic compounds, crude oils, fuels, polymers and lubricants using state of the art instrumentation.
- Demonstrable experience with a wide range of chromatographic and spectroscopic techniques, and related sample preparation.
- Experience in FTICR-MS, GCXCG TOF-MS, HT-GPC, data analysis using principle component analysis and Composer software is preferred.
- Strong problem solving skills.
- Excellent written and oral communication skills in English.

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APPLY NOW >>

جامعة الملك عبدالله للعلوم والتقنية
King Abdullah University of Science and Technology

Learn more about KAUST:
www.kaust.edu.sa

Learn more about Core Labs:
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 from more than 100 countries 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.