

OPPORTUNITIES

TO LIVE, WORK, & STUDY AT KAUST

Bioinformatics

Lead Staff Scientist

The Bioscience Core Lab (BCL) at King Abdullah University of Science and Technology (KAUST) is seeking a highly motivated Staff Scientist to lead the Bioinformatics team. The team is responsible for providing bioinformatics support to BCL and works with all divisions at KAUST along with other academic, industry and governmental organizations across the country.

The successful candidate will be part of a highly skilled team that manages and provides services on advanced and specialized instruments (including NovaSeq6000, MiSeq; PacBio Sequel IIe, Revio; Oxford Nanopore PromethION, GridION; 10X Chromium, etc) and participate in developing computational methods and applications.



Major Responsibilities

- Ensure efficient daily operations of the BCL, including data lifecycle management (secure transfer and storage, integrity checking, processing and analysis) and computational resources management.
- Supervise and contribute to continuous improvements of bioinformatics pipelines, quality control/quality assurance protocols, data processing workflows and analysis tools to maximize productivity and efficiency.
- Lead the identification, assessment, development, optimization and implementation of novel methodologies/tools and advancement of lab instrumentation to address latest research problems.
- Stay ahead of the field and create and implement technological updates in a persistent and timely manner.
- Design and perform bioinformatics data analysis in selected projects to address complex scientific problems.
- Provide expert advice to users and PIs regarding advanced data analysis methods and relevant bioinformatics solutions.
- Provide guidance and contribute to experimental design independently or in collaboration with other scientists.
- Organize tutorials and workshops to train users on best bioinformatics analysis techniques and workflows.



Person Requirements

- PhD in bioinformatics, computational biology, data science or similar field. At least 5 years of experience analysing large and complex sequencing and related biological data.
- Demonstrated experience in leading projects on building bioinformatics capabilities around advanced technologies such as Illumina, 10X, PacBio and Oxford Nanopore. Experience in proteomics is a plus.
- Full proficiency in shell, Python and/or R, workflow management software (e.g. Nextflow, Snakemake) and containerization tools (e.g. Docket, Singularity).
- Experience in web development and database management is a plus.
- Strong leadership and scientific problem-solving skills. Ability to lead and motivate a team and make operational decisions independently with minimal supervision.



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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 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.