

Subject: PhD student positions at KAUST, EPFL, KTH, and RWTH for a joint project.

Several PhD student positions are currently available at the aforementioned four universities for a collaborative project with a starting date of April 1, 2020. The candidates will be involved in the three-year project “High Dimensional Hierarchical Optimization methods for Machine Learning and Stochastic Optimal Control”. Background or expertise in one or more of the following areas will be considered when selecting candidates: Machine Learning, Neural Networks, Numerical solutions of Partial Differential Equations and Stochastic Differential Equations, Numerical Optimization, Uncertainty quantification, Approximation Theory, Applied Probability and Bayesian statistics, Optimal Control and Dynamic Programming.

Strong interpersonal qualities from the candidates will be appreciated as she/he will be working in a highly collaborative project and will be expected to spend a part of the time at the collaborating institutions.

Qualifications: A successful candidate preferably has completed a MSc in the field of applied mathematics or computational engineering, or in any field related to one or more of the aforementioned areas of research. Excellent analytical, computational and programming skills are expected.

Appointment, salary, and benefits for a candidate hired at KAUST: The appointment period is three years. The stipend for PhD students at KAUST is highly competitive and no income tax is currently paid to the Kingdom of Saudi Arabia. Benefits include medical and dental insurance, air transportation to KAUST, one round-trip airline ticket per year to visit home country, and free housing while at KAUST (in shared housing unless living with spouse or children).

Contacts, application material and deadlines:

KAUST or RWTH

Interested applicants should send their application to sri.uq@kaust.edu.sa

A successful application for a PhD student position in the Stochastic Numerics group at KAUST should be prepared as described here.

Successful candidates will still have to go through the KAUST application system for final approval. For more information, please see the KAUST application forms here.

EPFL

Interested PhD candidates are encouraged to apply to the EPFL Doctoral Program in Mathematics (EDMA) by the next deadline of January 15, 2020 and express their interest in this position in their motivation letter. Also, they are advised to send separately by email a CV to Prof. Fabio Nobile.

The positions will remain open until filled, but the candidate is expected to join the team on April 1, 2020, or as soon as possible.

About KAUST. King Abdullah University of Science and Technology (KAUST) is an international, graduate-level research university, located on the Red Sea near Thuwal, 80 kilometers (50 miles) north of Jeddah, in the Kingdom of Saudi Arabia. Dedicated to inspiring a new age of scientific achievement that will benefit the region and the world, KAUST has the mission of exemplifying the future of world-class research. More details are available at www.kaust.edu.sa.