

Several PhD Opportunities in Seismology

In our research group “Computational Earthquake Seismology (CES)” at King Abdullah University of Science and Technology, we have several open PhD positions in the general fields of earthquake seismology and Earth structure imaging.

The CES research group (<http://ces.kaust.edu.sa>) is part of the Earth Sciences & Engineering program (<http://ese.kaust.edu.sa>) at KAUST (<http://kaust.edu.sa>). KAUST is an international, graduate university dedicated to advancing science and technology through interdisciplinary research and education. Located on the shores of the Red Sea in Saudi Arabia, KAUST offers superb research infrastructure, strong funding, and plenty of opportunities to explore and grow academically. KAUST is also a very international community, and offers on-campus housing and infrastructure (shopping, restaurants, schools, clinic), state-of-the art sports facilities, and a large variety of social activities. The university attracts top international faculty, scientists and students to conduct fundamental and goal-oriented research in wide range of scientific fields and technological applications.

The open PhD positions fall within the broad domain of computational seismology. Specific research topics are: (i) advanced earthquake source imaging; (ii) ground-motion simulations for earthquake engineering applications; (iii) dynamic rupture simulations on geometrically complex fault systems; (iv) imaging Earth structure using modern seismic data processing and inversion techniques.

The CES Research Group has access to broadband seismic data recorded on 150+ stations in Saudi Arabia, but also maintains its own small broadband network (currently operating in Tanzania). We have access to the on-site super-computer, high-end workstations, and advanced data processing & visualization facilities. We enjoy numerous international collaborations, and PhD students are given the opportunity to visit our research partners and to attend scientific workshops and conferences.

Applicants should have an MSc. degree in geophysics, physics, computational sciences, geology or related fields. An option (MS/PhD) to obtain an MS-degree from KAUST “on the way” exists. A minimum GPA of 3.2 (or equivalent) is required, as well as fluency in English. Programming/numerical skills are desirable; good interpersonal skills and the willingness to work in a team of several researchers and students are expected. We also offer internship opportunities.

Interested applicants should contact Prof. P. Martin Mai (martin.mai@kaust.edu.sa) for inquiries, and include a CV and a statement of purpose. The formal application process is handled via an online platform (<https://www.kaust.edu.sa/en/study/applying-to-kaust>). Admitted students receive a stipend, free housing, and free medical insurance (health care).

The application deadline Dec. 15, 2016, starting date is the Fall Semester (August 2017); in exceptional cases an earlier start may be possible.