Karlsruher Institut für Technologie

KSETA
Graduate School for Elementary Particle and Astroparticle Physics: Science and Technology

KSETA Doctoral Fellow

The „**Karlsruhe School of Elementary Particle and Astroparticle Physics: Science and Technology (KSETA)“** is the Doctoral School of the *KIT Center Elementary Particle and Astroparticle Physics* (KCETA) at KIT (Germany). KSETA is now accepting applications for doctoral researcher positions starting in **October 2026** or later. Our PhD program leads to a doctoral degree in physics, informatics/computer science, electrical engineering or chemical process engineering.

With more than 300 scientists, KCETA combines the research activities of the Karlsruhe Institute of Technology (KIT) in theoretical and experimental elementary particle and astroparticle physics and is one of Europe's leading institutions in these fields. KSETA offers an inspiring interdisciplinary research environment involving the fields of cosmic ray physics, neutrino astronomy, dark matter, quantum field theory, experimental and theoretical collider physics, experimental and theoretical flavour physics, neutrino physics, computational physics and accelerator research as well as the development of sophisticated analysis techniques and modern technologies such as superconducting-enhanced sensing and instrumentation and high-performance data acquisition and signal-processing systems. We contribute to large-scale research projects such as Pierre Auger Observatory, Belle II, CMS, LHCb, FCC-ee, XENONnT, DELight, IceCube Neutrino Observatory, KATRIN and XLZD, as well as the German Tier-1 grid computing center GridKa (see also www.kseta.kit.edu).

The doctoral school provides an attractive research environment, with subjects for doctoral theses in experimental and theoretical particle and astroparticle physics as well as engineering, in particular in the areas of electronics, detector instrumentation, sensor technology, computer science, data management and data analysis, or at the intersections of any of these fields. The school complements this with an individually tailored course program for both physicists and engineers.

A Master's degree in physics, electrical engineering, computer science or any other related discipline qualifying for research at KSETA is required by the time of appointment to the position of doctoral researcher. In addition, applicants should not have a PhD yet and are in their first four years after their Master's degree. Applicants must not have resided or carried out their main activity (work, studies, etc.) in Germany for more than 12 months in the 36 months immediately before the deadline of this call. A good command of spoken and written English is required.

Please register prior to application at **http://www.kseta.kit.edu/application.php**.

Further information about the application procedure, available research topics, subjects for doctoral dissertations and the KSETA principal investigators can be found at **http://www.kseta.kit.edu**.

The closing date for applications is **February 20, 2026**. Documents received after the deadline will not be considered.

Funding will be provided through employment contracts, including contributions to the retirement fund as well as health, long-term care, and unemployment insurances.