

The Collaborative Research Centre 1540 “Exploring Brain Mechanics” is looking for

Doctoral/Postdoctoral Researchers

The central nervous system (CNS) is our most complex organ system. Despite tremendous progress in our understanding of the biochemical, electrical, and genetic regulation of CNS functioning and malfunctioning, many fundamental processes and diseases are still not fully understood. Only recently, groups of several project leaders in this consortium, and a few other groups worldwide, have discovered an important contribution of mechanical signals to regulating CNS cell function. The CRC 1540 ‘Exploring Brain Mechanics’, funded by the German Science Foundation, will synergise the expertise of engineers, physicists, biologists, medical researchers, and clinicians in Erlangen and Berlin to exploit mechanics-based approaches to advance our understanding of CNS function and, as a long-term vision, to provide the foundation for future improvement of diagnosis and treatment of neurological disorders. The CRC will start January, 2023. Further details can be found at <https://www.crc1540-ebm.research.fau.eu>.

What you can expect:

We will offer you the possibility to perform research within an interdisciplinary team in a highly innovative and active research area comprising biomechanics, -materials, -mathematics, -physics, biology, and medicine. In addition to the research programme, you will be part of EBM’s integrated Research Training Group (iRTG) and benefit from its structured qualification programme including seminars, workshops, academic skills courses, research secondments, as well as retreats, scholars’ visits, team-building activities and other.

Depending on the subproject, your work location is at Friedrich-Alexander-Universität Erlangen-Nürnberg, Universitätsklinikum Erlangen, Max Planck Institute for the Science of Light in Erlangen, or at the Charité Universitätsmedizin Berlin. Remuneration is at E 13 TV-L according to the German public service salary scale.

With one application, depending on your expertise, you may apply for several doctoral/postdoctoral projects

You are eligible to apply if:

- you either hold or are about to obtain a qualifying degree (M.Sc./diploma/PhD ...) in one of the following areas: mechanics, medicine, material sciences, mathematics, biology, physics, or in a closely related field
- you are proficient in the English language; knowledge of the German language is welcome
- you have strong interpersonal skills and are able to work in a team

Necessary documents:

- letter of motivation (max. 1 page) including an order of preference for the projects you are applying for
- copy of qualifying degree
- academic transcripts (with grades and rankings)
- brief summary of most recent thesis and of recent publications (max. 1 page each)
- short CV
- letter/s of recommendation and publication list (if any)

Please send your application until January 31, 2023 to:

Funktionsadresse, e.g. crc1540-applications@fau.de

Note: All the requested documents must be collected in a single pdf file that must not exceed 10 MB. If you have any questions concerning a specific project please contact the corresponding project leader.

We are looking forward to receiving your application!