Technische Universität Dresden

The Center for Molecular Bioengineering (B CUBE) (https://tu-dresden.de/cmcb/bcube) and its partner institutions, the Biotechnology Center (BIOTEC) and the Center for Regenerative Therapies Dresden (CRTD), are equipped with state-of-the-art facilities for Molecular Bioscience and Biomaterial Research (https://tu-dresden.de/cmcb/bcube/forschung-technologie/technologieplattform). They are part of a rich and collaborative environment that includes the School of Science, the Carl Gustav Carus Faculty of Medicine, the Max Planck Institute of Molecular Cell Biology and Genetics (MPI-CBG), and the Leibniz Institute for Polymer Research (Dresden) IPF).

For TUD Dresden University of Technology diversity is an essential feature and a quality criterion of an excellent university. Accordingly, we welcome all applicants who would like to commit themselves, their achievements and productivity to the success of the whole institution.

At **B CUBE**, an Institute of the **Center for Molecular and Cellular Bioengineering (CMCB)**, the **Chair of Bioprospecting** (Prof. Dr. Yael Politi, https://tu-dresden.de/cmcb/bcube/forschungsgruppen/politi) offers, subject to the availability of resources, a position as

Research Associate / Postdoc (m/f/x)

(subject to personal qualification, employees are remunerated according to salary group E 13 TV-L)

starting **August 1, 2026**. The position is limited to 3 years with the possibility of a 2-year extension (Postdoc, full-time). The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG). The position aims at obtaining further academic qualification (usually habilitation thesis).

Tasks: The successful applicant will join the group of Yael Politi and will take part in projects management, data acquisitions and analysis. The projects are related to arthropod cuticle deposition in insects and spiders. The group studies arthropod exoskeletons as a model to unravel the molecular mechanisms underlying bio-composite formation in biology. The employee will also be expected to take part in teaching and out-reach activities. The position is funded by the German Research Foundation (DFG) and is part of the research training group "Biological Making of Materials" (RTG-3142).

The successful applicant will use state-of-the-art volume imaging methodologies specifically FIB-SEM, as well as scanning focused beam x-ray small and wide angle scattering to understand the assembly of chitin filaments in the cuticle.

Requirements:

- university and PhD degree in biology, biomimetics, biological materials, or related fields
- applicants with strong research experience in x-ray data analysis will be preferred
- prior experience in electron microscopy, specifically FIB/SEM volume imaging is essential
- strong writing skills with a proven track record of successful research
- excellent communication skills in English are indispensable, as this is the colloquial language at the research center
- knowledge in German is highly beneficial, due to expected outreach activities with German speaking audience

TUD strives to employ more women in academia and research. We therefore expressly encourage women to apply. The university is a family-friendly university. We welcome applications from candidates with disabilities. If multiple candidates prove to be equally qualified, those with disabilities or with equivalent status pursuant to the German Social Code IX (SGB IX) will receive priority for employment.

Application: Please submit your detailed application including CV, letter of intent and copies of highest degree by **May 27, 2026** (stamped arrival date or the time stamp on the email server of TUD applies), preferably via the TUD SecureMail Portal https://securemail.tu-dresden.de by sending it as a single pdf file to **nora.froehlich@tu-dresden.de** or to:

TU Dresden, B CUBE, Prof. Dr. Yael Politi, Tatzberg 41, 01307 Dresden, Germany.

Please submit copies only, as your application will not be returned to you. Expenses incurred in attending interviews cannot be reimbursed.

B CUBE
Center for Molecular Bioengineering TU Dresden

TUD is a founding partner in the DRESDEN-concept alliance.

DRESDEN concept

Reference to data protection: Your data protection rights, the purpose for which your data will be processed, as well as further information about data protection is available to you on the website: https://tu-dresden.de/karriere/datenschutzhinweis.