

The **Chair of Tissue Dynamics** at the **Cluster of Excellence “Physics of Life” (PoL)** offers a position as

Research Associate / Postdoc in Mechanics Feedbacks in Living Tissues (m/f/x)

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

starting **as soon as possible** and initially limited to 2 years. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz – WissZeitVG). The position offers the chance to obtain further academic qualification.

The Chair of Tissue Dynamics (Campàs Lab) uses interdisciplinary and quantitative approaches to study the physics and mechanics of multicellular systems (<https://physics-of-life.tu-dresden.de/en/research/core-groups/campas>). We have recently developed novel techniques to quantify and perturb local tissue mechanics using microdroplets. These techniques offer unique opportunities to study physical aspects of multicellular systems. Our lab, hosted at the Max Planck Institute for Cell Biology and Genetics, is part of the Cluster of Excellence PoL (<https://physics-of-life.tu-dresden.de/en>), which is a new interdisciplinary research center dedicated to Biological Physics and Quantitative Biology in the outstanding Dresden environment.

Tasks: Adapt and further develop magnetic microdroplet techniques to study cell and tissue mechanics in living tissues (including developing embryos and organoids), and in particular to study the role of mechanical feedbacks in multicellular systems. The successful applicant will work in a collaborative environment at the Chair of Tissue Dynamics (Campàs lab), with a highly interdisciplinary group of researchers, including physicists, engineers and biologists, as well as in collaboration with other research groups at the Physics of Life Excellence Cluster and at the Max Planck Institute for Cell Biology and Genetics.

Requirements: A university and a PhD degree in Physics (or related fields, including Biology or Engineering) is required. Previous experience in biological physics, instrumentation, soft-matter physics, cell biology, organoids or other multicellular systems will be considered positively.

For any questions regarding the position, please feel free to contact Prof. Dr. Otger Campàs (otger.campas@tu-dresden.de).

Applications from women are particularly welcome. The same applies to people with disabilities.

Please submit your application as a single pdf file by **July 15, 2022**

(stamped arrival date applies), including a cover letter explaining your

motivation to apply for this position and your CV via the TU Dresden

SecureMail Portal <https://securemail.tu-dresden.de> to [julia.abram@tu-](mailto:julia.abram@tu-dresden.de)

[dresden.de](mailto:julia.abram@tu-dresden.de) (subject line ‘**Mechanics Feedbacks in Living Tissues**’) or to: **TU Dresden,**

Exzellenzcluster “Physik des Lebens” (PoL), z. Hd. Julia Abram, Arnoldstr. 18, 01307 Dresden,

Germany. Please also arrange three references to send their letters directly to [julia.abram@tu-](mailto:julia.abram@tu-dresden.de)

[dresden.de](mailto:julia.abram@tu-dresden.de) via the TU Dresden SecureMail Portal <https://securemail.tu-dresden.de>. Please submit

copies only, as your application will not be returned to you.

**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>.