

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

Research Associate / Postdoc in Epithelial Organoid Mechanics (m/f/x)

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

starting **as soon as possible**. The position is initially limited to 2 years, with the option of extension upon good progress. 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 interdisciplinary project will be carried out in collaboration between the Chair of Tissue Dynamics of Professor Campàs and the PoL member Alf Honigman at the DRESDEN-concept partner Max Planck Institute for Molecular Cell Biology and Genetics (MPI-CBG). We seek independent, passionate, and motivated applicants for a Postdoctoral Fellow to lead a project on organoid mechanics. The Chair of Tissue Dynamics 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>), and has recently developed novel techniques to quantify and perturb local tissue mechanics using microdroplets. The PoL member Honigmann contributes expertise on advanced imaging, 3D tissue culture and reconstitution approaches to reveal the molecular organization of cell interfaces and its function for tissue morphology (<https://physics-of-life.tu-dresden.de/en/research/associates-affiliates>). The project will be carried out at the MPI-CBG, as 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: Study the mechanics of epithelial organoids using state-of-the-art techniques to measure cell and tissue mechanics. The successful applicant will work in a collaborative environment at the chair of Professor Campàs, with a highly interdisciplinary group of researchers, including physicists, engineers and biologists.

Requirements: A university and a PhD degree in Biology or Physics (or related fields) is required. Previous experience in biological physics, 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) and/or Dr. Alf Honigmann (honigmann@mpi-cbg.de).

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

Please submit your application as a single pdf file by **February 1, 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-dresden.de (subject line '**Organoid Mechanics Position**') or by mail to: **TU Dresden, Exzellenzcluster Physics of Life, z. Hd. Julia Abram, Arnoldstr. 18, 01307 Dresden, Germany.**

Please also arrange three references to send their letters directly to

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.

