

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

**Research Associate/Postdoc in Physics and Mechanics of Embryonic Development** (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 to become extended. 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 Campàs Lab uses interdisciplinary and quantitative approaches to study the physics and mechanics of multicellular systems, especially in developing embryos (<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:** We seek independent, passionate, and motivated applicants for a Research Associate/Postdoc position to (1) develop and improve measurement techniques to quantify physical and mechanical quantities in living cells and tissues, and (2) study the physics/mechanics of cells and their collective interactions in living embryos (as well as in other multicellular systems). The successful applicant will be in charge of instrumentation development and physical measurements in the laboratory and have a leading role in most of the activities in this area, as well as work in a collaborative manner with a highly interdisciplinary group of researchers, including physicists, engineers and biologists. You are expected to be involved in collaborations within PoL and the Max Planck Institute for Cell Biology and Genetics, as well as with other neighboring institutes and international institutions.

**Requirements:** university and a Ph.D. degree in Physics (or related fields) and previous experience in instrumentation and/or advanced physical measurements, as well as a keen interest in biological systems, are required. Previous experience in biophysics or soft-matter physics will be considered positively. Previous postdoctoral experience in any of the abovementioned areas will also be considered positively, although not required.

Applications from women are particularly welcome. The same applies to people with disabilities. Please submit your comprehensive application by **December 13, 2021** (stamped arrival date applies), including the usual documentation and a cover letter explaining your motivation to apply for this position, your CV and reference letters (at least 3) preferably via the TU Dresden SecureMail Portal <https://securemail.tu-dresden.de> by sending it as a single pdf document to [otger.campas@tu-dresden.de](mailto:otger.campas@tu-dresden.de) (subject line 'Campas Lab Physical Measurements Position')

or to: **TU Dresden, Exzellenzcluster Physics of Life, Professur für Dynamik von Geweben, Herrn Prof. Dr. Otger Campas, Arnoldstr. 18, 01307 Dresden, Germany.** Please submit copies only, as your application will not be returned to you.