

Faculty of Computer Science

The **Institute of Software and Multimedia Technology, Chair of Multimedia-Technology**, invites applications for one

Research Associate / PhD Student / Postdoc

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

within the Cluster of Excellence „**Physics of Life**“ (PoL) starting at the **earliest possible date**. The position entails 100 % of the fulltime weekly hours for two years or entails 65 % of the fulltime weekly hours for three years, governed by the Fixed-Term Research Contracts Act (WissZeitVG). The position offers the opportunity for further academic qualification (e.g. PhD. or habilitation thesis).

The PoL cluster aims to elucidate the “laws of physics” that underlie the dynamic spatiotemporal organisation of life into molecules, cells and tissues. Its unique focus is to bring fundamental physics to biology for the purpose of understanding and solving biological questions. Using this holistic approach PoL is dedicated to identify physical principles that govern the dynamic organisation of active living matter across multiple scales utilising innovative experimental approaches, theoretical predictions and computer simulation. More information can be found at <https://physics-of-life.tu-dresden.de/>.

Tasks: You will be conducting research in the area of exploring multiscale biological data involving latest interactive, immersive visualization technology. Smart microscopes and data-driven simulations deliver biological imagery, which needs to be explored, analysed and understood across several scales (e.g., from molecules to cells to tissues) with a seamless transition between visual models, simulation results or microscopy images at varying levels of details. Research includes the real-time steering of simulation or microscope parameters and perturbations within immersive environments. Publication and presentation of research results at international venues is an important part of the work.

As a member of the Chair of Multimedia-Technology you will be part of a successful team of experienced researchers of diverse backgrounds. You will work in the vibrant scientific environment of the Cluster of Excellence of the Dresden-Concept Partners and TU Dresden, one of the leading German research universities. Dresden is a city highly worth living in with a rich cultural life and beautiful nature.

Requirements: We are looking for motivated and talented staff members with specific background knowledge or prior experience in interactive information visualisation and/or novel human-computer interaction or interactive visual computing. For PhD candidates, a very good university degree (M.Sc. or equivalent) in computer science or a related area is required.

Postdocs with a university degree and a PhD should have made significant research contributions to one of the above areas. Candidates should be independent in organising their work, keen on working with teams of experts across projects, and fluent in English (oral and written).

Applications from women are particularly welcome. The same applies to people with disabilities. Please submit your comprehensive application (including CV and statement of research interest) by **16.12.2019** (stamped arrival date of the university central mail service applies), preferably via the TU Dresden SecureMail <https://securemail.tu-dresden.de> by sending it as a single PDF document to raimund.dachselt@tu-dresden.de or by mail to: **TU Dresden, Fakultät Informatik, Institut für Softwaretechnik, Professur für Multimedia Technologie, Herrn**

Prof. Dr. Raimund Dachsel, Helmholtzstr. 10, 01069 Dresden. Please submit copies only, as your application will not be returned to you. Expenses incurred in attending interviews cannot be reimbursed.

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>