The Center for Information Services and High-Performance Computing (ZIH) is offering a position within the Volkswagenstiftung-funded project “Deciphering the principles of cell decision-making in multicellular systems: The Least microEnvironmental Uncertainty Principle (LEUP)” as

**Research Associate (m/f/x)**

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

with 65% of the fulltime weekly hours starting **as soon as possible**. The project position is limited until December 31, 2024 (total period 3 years). The period of employment is governed by § 2 (2) Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz – WissZeitVG).

The group of Dr. Haralampos Hatzikirou “Multiscale models in multicellular systems (M3s)” at the IMC department lead by apl. Prof. Andreas Deutsch investigates the principles of cell decision-making in multicellular systems to understand patho-physiologies and improve biomedical interventions. Additionally, M3s group develops algorithms, combining mathematical modeling and machine learning, that allow to predict the course of biomedical systems when the underlying biological mechanisms are not fully known.

**Tasks:**
- development of cell decision-making models based on LEUP
- calibration and validation against experimental data
- theoretical advancements in the context of the theory
- close cooperation with academic and industrial cooperation partners.

**Requirements:**
- university degree (M.Sc., Diploma) in Physics, Applied Mathematics or a comparable natural science
- substantial interest in physics of life, systems biology, theoretical biology; substantial expertise in mathematical modeling and analysis (analytic or computational)
- background in statistical physics applied in biology is desirable
- proficiency in English and German
- scientific publications are welcome.

We are looking for a highly motivated researcher who will work in the group of Dr. Hatzikirou for the Volkswagenstiftung-funded project “LEUP”. You will join a team of enthusiastic researchers who creatively pursue their individual research agendas.

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

Please send your application with the usual documents under the **job ID "LEUP PhD Student"** until **November 30, 2021** (stamped arrival date of the university central mail service applies) preferably via the SecureMail Portal of the TU Dresden [https://securemail.tu-dresden.de](https://securemail.tu-dresden.de) as a PDF document to: **zih@tu-dresden.de** or to **TU Dresden, Zentrum für Informationsdienste und Hochleistungsrechnen (ZIH), Herrn Prof. Dr. Wolfgang E. Nagel, 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.