



Hiring PhD students in theoretical biophysics

The [Theory of Living Matter group](#) at [TU Wien](#) is hiring PhD candidates. We are looking for exceptional candidates to work as a university assistant (Pre-Doc) for 3 years for 40 hours/week. We will accept applications per email on an ongoing basis until all positions are filled.

[TU-Wien](#) is Austria's largest institution of research and higher education in the fields of technology and natural sciences. With over 26,000 students and more than 4000 scientists, research, teaching and learning dedicated to the advancement of science and technology have been conducted here for more than 200 years, guided by the motto "Technology for People". As a driver of innovation, TU Wien fosters close collaboration with business and industry and contributes to the prosperity of society.

The [Theory of Living Matter group](#), headed by [Sebastian Fürthauer](#), uses theoretical and numerical approaches to study the physics of cells, tissues and organisms: How does the cellular machinery that segregates chromosomes during cell division work? How can dividing cells deform and ultimately split? How do the cells in our bodies give shape to organs? How can cells tell left from right? What are the forces and torques involved, how are they generated, and how are they organized across scales?

Tasks:

- Deepening of scientific knowledge and independent research work on the specific research project
- Preparation of scientific publications and a PhD thesis in English
- Presentation of research results at international conferences and other scientific events

Your profile:

- Completion of a Master's degree or a Diploma curriculum in theoretical physics, applied mathematics, or a related field.
- Relevant research experience.
- Excellent communication and writing skills in English.
- Team competences and problem-solving skills.
- Strong appetite for interdisciplinary science.

We offer:

- Exciting research projects at the cutting edge of theoretical biophysics; (see <https://sflab.netlify.app>)
- Competitive salary, see this [link](#) for details.
- Social benefits (e.g. health insurance, etc.)
- Central location with excellent accessibility (U1/U2/U4 Karlsplatz) in a city regularly ranked first worldwide for life quality
- We are committed to increasing the proportion of women in particular in leadership positions. Female applicants are explicitly encouraged to apply. Preference will be given to women when equally qualified, unless reasons specific to a male applicant tilt the balance in his favor.
- People with special needs are equally encouraged to apply. In case of any questions, please contact the confidant for disabled persons at the university, Mr. Gerhard Neustätter.

Applicants should send the following documents to fuertbauer@iap.tuwien.ac.at :

- Letter of Motivation.
- Curriculum vitae (CV)
- Contact details for two References; Please inform your reference contacts that you have applied for this position and that they will be asked for reference letters.