

SNSF funded 4-year Theory PhD position on excitable and oscillatory dynamics in organogenesis:

Multi-scale coordination of organ/organism level activity still remains one of the open questions in biology, with a wide impact from morphogenesis to aging. The planned PhD project investigates the large scale coordination of oscillatory and excitable cellular activity that gives rise to organ scale function such as signalling waves, global contraction etc. It presents a balanced work between pure theory and data-driven inference from live microscopy images from experimental collaborators. For further details please get in touch.

The group:

Our newly-formed group is based in the Biochemistry department of the University of Geneva and shares a large collaboratorium space with the unit of Professor Karsten Kruse. The research in the group spans various aspects of organogenesis such as geometry, mechanics and tissue hydraulics. For more details please consult the webpage <https://argomukherjee.mystrikingly.com/>

Preferred profile:

Candidates with a Masters in any of the quantitative natural sciences such as physics, mathematics or engineering are welcome to apply. Prior experience in biology is not required but a willingness to learn from and communicate with biologists is crucial for this role.

Practical details:

The department hosts a vibrant graduate student community with many resources for academic and cultural growth. The city of Geneva is a highly international medium sized European city with excellent infrastructure.

The Swiss PhD salary (publicly available SNSF rates) is highly competitive. PhD students are treated as regular employees with all full protections and support which provides a high quality of living standards.

How to apply:

Please send a CV and a motivation letter to Argo Mukherjee (argo.mukherjee@unige.ch) with a subject headline "PhD application". At later stages, 2 letters of recommendation might be necessary. Hence it is useful to inform the letter writers well ahead of time. Candidates will be evaluated on a rolling basis until the deadline of 28th February 2026.