

## Calls for Technician / Post-doctoral / PhD positions at the University of Geneva

**One technician, one post-doctoral and one PhD** positions are available at the Medical Faculty, **University of Geneva**, in the group of Prof. Perrine Castets that will be started in September 2019. The main interests of the group are to understand the molecular mechanisms underlying the loss of muscle function in systemic conditions and neuromuscular diseases. We pay specific attention to the physiology of neuromuscular junctions (NMJ), the mechanisms underlying their maintenance and remodeling, and the events threatening their function. Projects are mainly based on the analysis of different mouse models to assess muscle function, NMJ physiology and signaling pathways in challenging conditions (nerve injury, casting...). In vitro analysis of human and mouse muscle cell lines will complement the projects. The **technician** will play a central role in the group, as she/he will contribute to the organization of the lab and the supervision of students in the group on routine experiments. In parallel, she/he will manage a translational sub-project with established procedures, focusing on the analysis of muscle physiology in mouse models for specific muscle diseases. The **post-doctoral** project will focus on fundamental aspects of NMJ physiology and aim at developing new procedures, which will be then applied to translational projects. The **PhD** project will focus on signaling pathways involved in the muscle response to nerve injury and the mechanisms ensuring synaptic remodeling in the muscle.

For the technician position: Candidates with expertise in muscle analysis and strong background in biochemistry are strongly encouraged to apply. Master diploma is not required and may actually be limiting (different salary class). The technician may be at 80 to 100% working time.

For the post-doctoral position: Candidates with expertise in Ca<sup>2+</sup> imaging *in vivo*, the use of AAV in muscle tissue, and/or muscle/NMJ pathophysiology from leading labs are encouraged to apply. Strong background in biochemistry is a plus. PhD diploma should have been obtained not more than 3 years ago.

For the PhD position: Candidates, who did a Master in the muscle field and/or on epigenetics are encouraged to apply.

Successful candidates will work in a newly set research group of 5 people led by Perrine Castets, with the ambition to conduct translational challenging projects, with tight interactions with clinical groups of the Hospital of Geneva, as well as several collaborations in Switzerland and outside. The department of Cell Physiology and Metabolism offers an ideal multi-disciplinary place allowing the group to interact and collaborate on numerous aspects of physiology and metabolism, and to benefit from state of the art facilities at the Medical Faculty (epigenetic analysis, proteomics...), which will contribute to the fulfillment of the projects.

### **How to apply**

Please send a cover letter stating your previous research experience and motivation, CV and contact information for three references as a single file to: [perrine.castets@unibas.ch](mailto:perrine.castets@unibas.ch). Interviews will be held at the University of Basel.