

Postdoctoral Fellow in the EPFL Soft Transducers Lab

Research topic: soft actuators for wearable robotics

[The Soft Transducers Laboratory](#) (EPFL-LMTS) in Neuchatel, Switzerland has an opening for a **Postdoctoral fellow** to develop soft actuators for wearable robotics.

Research Context

The EPFL-LMTS is a leading lab in soft actuators based on elastomers, with a focus on electrostatic actuation. We develop wearable robotics for a broad range of applications in healthcare, industrial use, and VR.

Job description:

The goal for this position is to develop flexible mm-diameter fibers, that extend or contract upon electrical command, and that can exert large forces. The fibers will be woven or knitted into active textiles. You will exploit energy efficient yet fast actuation principles such as electrostatics and electrohydrodynamic pumping. The goals include developing scalable manufacturing techniques and developing and testing upper or lower body soft support exoskeletons.

Your Profile

We are looking for self-driven, rigorous and creative researchers with a strong interest in soft robotics. The successful applicant should have:

- PhD in Physics, Electrical Engineering, Mechanical Engineering, Robotics, or a related field
- Hands-on experience with soft fabrication techniques and processes
- Strong experimental and analytical skills
- Ability to collaborate closely with colleagues in a multicultural setting
- Strong problem-solving skills and attention to detail
- Excellent written and oral communication skills in English

Contract Duration: 12 months, renewal up to maximum of 4 years

Start date: 1.1.2025 (or as agreed)

Workplace:

EPFL (Ecole Polytechnique Fédérale de Lausanne)
LMTS (Soft Transducers Lab)
Rue de la Maladière 71b, CH-2000 Neuchâtel, Switzerland

We Offer

- Excellent facilities (state of the art cleanrooms, dedicated platform for soft matter processing, extensive characterization equipment)
- A young, dynamic, inter-disciplinary, and international working environment.
- World-class project partners in Europe, USA and Asia
- Competitive salary

To apply for the position, please email a CV, cover letter, and list of three references to herbert.shea@epfl.ch.

Further information about our lab in general can be found at www.epfl.ch/labs/lmts/