

Master's Project (PDM) position in microparticle functionalization for applications in lab automation.

The **Group for Functionalized Biomaterials** (GBF, SCI-SB-SG) and the **Swiss Cat+** at EPFL Lausanne offer a multidisciplinary Master's project (PDM) position for the **spring semester 2027**. The position focuses on the functionalization of magnetic microparticles for use in lab automation, specifically automated multistep synthesis. The project will include the synthesis and analysis of small organic molecules (and potentially polymers) as linkers and their application to the functionalization of microparticles. The functionalized particles will be tested in the automation laboratory. The project is ideally suited for a student looking for experience in organic synthesis with an interest in interdisciplinary work.

What we offer:

- Interdisciplinary project spanning organic chemistry, microparticles, and automation.
- Well-equipped synthetic lab with expertise in the preparation of functionalized microparticles.
- Supervised access to the Swiss Cat+ automation platform.
- Access to all EPFL platforms for advanced analysis.
- A small, friendly team ready to help you develop as a young researcher.

What we would like you to bring:

- Enrolment in a Master's degree program in chemistry or materials science.
- Prior hands-on experience in a synthetic chemistry lab (organic chemistry practical sessions, academic or industrial internships, etc.).
- Rigorous and autonomous attitude with a strong interest in learning new disciplines.
- Collaborative and open mindset.
- Working proficiency in English
- Prior experience with solid-supported synthesis or particle functionalization is a plus.

To apply, please reach out to Leander Choudhury via email (leander.choudhury@epfl.ch), including a CV (with contact details from previous lab supervisors), a motivation letter (max 1 page) and a copy of BSc/MSc grade records. Incomplete applications will not be considered.

Application deadline: 15th October 2026.

Starting date: Flexible early 2027.

Duration: 4-6 Months.