



**UNIVERSITÉ
DE GENÈVE**



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PhD position in biopharmaceutical analysis

In collaboration between the University of Geneva and Merck Biotech Development Center in Vevey site

Title:

Innovative chromatographic, electrophoretic, and mass spectrometric approaches for comprehensive characterization of complex therapeutic proteins

Short project description:

The candidate will benefit from extensive expertise in developing innovative chromatographic (LC), electrophoretic (CE), and mass spectrometry (MS) methods through collaboration between the University of Geneva and Merck laboratories. The PhD project aims to design fit-for-purpose analytical methods for characterizing and quantifying critical quality attributes of therapeutic proteins throughout their production cycle. Project samples will be sourced from Merck development pipeline and will include monoclonal antibodies, antibody-drug conjugates, bispecific antibodies, and protein degrader-mAb conjugates, primarily developed for cancer treatment.

The research will combine theoretical investigation with practical application, focusing on three core analytical chemistry techniques (LC, MS, CE), using state-of-the-art analytical instrument, advanced robotic platforms and automation systems available at Merck

The candidate will be employed by the University of Geneva and enrolled in the Life Sciences PhD program, but with a significant part of his/her time working at Merck.

Why join us:

- *Innovative environment:* Work in a dynamic environment that encourages innovative thinking and exploration of cutting-edge ideas and technologies.
- *Mentorship and Support:* Benefit from close guidance and mentorship from experienced researchers.
- *Collaboration and Networking:* Collaborate with several experts from academia and industry, which can lead to professional relationships and opportunities.
- *Career Opportunities:* A PhD position in this joined working environment can open doors to diverse career paths in academia, industry, government, and beyond.

Start: 1st of February 2026

Supervision: Prof. Davy Guillarme (UNIGE) and Dre Amarande Murisier (Merck)

Job conditions: Full-time position with a competitive salary. PhD candidate will be involved in teaching analytical chemistry at the Bachelor level. The duration of the PhD is 4 years.

Requirements: The candidate must hold a master in sciences (pharmacy, chemistry, biochemistry, or a closely related discipline). Previous experience in analytical methods (LC, CE, MS) is preferred. An interest in programming languages (e.g. Python) is a plus. The ideal candidate will be highly motivated, creative, collaborative, well-organized, and possess excellent oral and written communication skills in English, with proficiency in French considered an asset.

To apply: Please send your application including a complete CV, short motivation letter and the names and addresses of at least 2 references **exclusively** to davy.guillarme@unige.ch, before the 15th of November 2025.