

Prof. Davy Guillarme
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Postdoctoral position in biopharmaceutical analysis

Available at the analytical sciences research unit at the University of Geneva in Switzerland

Title:

Development of advanced LC-MS strategies for the detailed characterization of biopharmaceuticals

Short project description:

Our research group possesses extensive expertise in developing innovative chromatographic methods for the characterization of a wide range of biopharmaceutical products, which are highly popular today in the pharmaceutical industry. These include mAbs, ADCs, bispecific antibodies, oligonucleotides (ASO, siRNA), oligonucleotide-mAb conjugates, gene therapy products (AAVs), and mRNA vaccines. The objective of the postdoctoral position is to integrate these advanced chromatographic techniques with high-resolution mass spectrometry (QqTOF/MS) to identify synthesis-related impurities, degradation products, post-translational modifications. The postdoc will be expected to both collaborate with PhD students and other postdocs on specific biopharmaceutical research challenges requiring MS analysis, while also developing independent research lines in the field of LC-MS applied to large biomolecules. Project samples will be sourced through collaborations with industrial partners. The work will involve a balanced combination of theoretical investigation and practical application.

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 Post-doc position in our laboratory can open doors to diverse career paths in academia, industry, government, and beyond.

Start: 1st of January 2026

Supervision: Prof. Davy Guillarme

Job conditions: Full-time position with a competitive salary. All team members are involved in teaching analytical chemistry at the Bachelor level. The postdoctoral appointment is initially for one year, with the possibility of annual renewal for up to a maximum of three years.

Requirements: The candidate must hold a PhD in sciences, ideally in pharmacy, biochemistry, chemistry, or a related discipline. Strong expertise in high-resolution mass spectrometry applied to large molecules (proteins or nucleic acid-based molecules) is **mandatory**. Knowledge of Waters (or Agilent) MS software is a strong asset. 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 advantage. The Postdoc will hold a part-time assistant position, contributing to the training and teaching of undergraduate students.

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 October 2025.