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Masters Trainee: Development of a method to analyze *N*-glycans from glycoproteins

Position Snapshot

Location: Lausanne, Switzerland

Company: Nestlé Research, Nestlé Institute of Food Safety & Analytical Science
Activity Rate: 100%

Type of contract: Internship, 6 months

Start date: February – June 2026

Position Summary

Glycoproteins (GP) are not only a source of proteins but also an important source of glycans for humans. These glycans can be classified into *N*- and *O*-glycans depending on their linkage to the protein backbone, and it has been reported that these glycans can display various biological activities. In this Master training, we will focus on the analysis of *N*-glycans from various GP. The analysis of *N*-glycans from GP requires the release of *N*-glycans from the glycoprotein backbone, which is mostly performed enzymatically. However, the enzymes used are rather expensive and depending on the glycoprotein substrate, the release of *N*-glycans might be incomplete, leading to underestimation of *N*-glycans.

As a Master trainee in our Proteins and Carbohydrates Analytics department, you will research, optimize and validate a chemical-based approach to release *N*-glycans from GP, allowing quantification and characterization of *N*-glycans from GP. The right candidate should be self-motivated, curious and have great attention to detail.

To apply contact carolina.oliveirapandeirada@rd.nestle.com

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A Day in the Life of a Master's Trainee

- Review and keep up to date with literature on the subject
- Discuss experimental plan with supervisor
- Design and execute laboratory work to achieve objectives

What will make you successful

- Strong background in analytical chemistry.
- Good attention to detail.
- Previous experience with chromatography and knowledge of carbohydrate and organic chemistry is beneficial.
- Should be comfortable working in English.

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