

In the Department of Biotechnology at BOKU, Vienna, the Jungbauer research group offers a
PhD position (30 h/week, 36 months) in downstream processing of proteins

The project

deCIPHER is an FWO-FWF joint project between research groups at VUB (vub.be, Brussels, Belgium) and BOKU (boku.ac.at, Vienna, Austria). The project envisions a native, multi-dimensional liquid chromatography (MD-LC) platform to i) separate highly complex mixtures of monoclonal antibody variants with unparalleled resolving power, and ii) assess biophysical characteristics of the individual variants. Two highly complementary research groups will be involved: VUB will develop the MD-LC platform, while BOKU will develop novel downstream processes and characterization tools for recombinant secretory immunoglobulin A (sIgA).

Your tasks

- Development of protein purification processes for sIgA
- Chromatography, precipitation and membrane-based separation methods
- Isolation of sIgA and IgG variants
- Development of characterization methods for sIgA
- Correlation of MD-LC results generated at VUB with characterization results at BOKU
- Oral & written presentation of results, active contribution to the publication process of the results in peer-reviewed journals

Your profile

The ideal candidate holds a degree in biotechnology or chemical engineering and has very good theoretical and practical knowledge of protein purification and analytical methods, an interest in modelling and an understand of protein biochemistry. We expect you to be enthusiastic to reach ambitious goals, to learn new techniques and to present your results in oral and written form. Excellent skills in spoken and written English and the ability to work in an international team are essential.

What you should know

- monthly gross payment of € 2,294.00 (PhD 30 h/week)
- duration of employment: 36 months
- The PhD position is funded by the FWO-FWF joint project deCIPHER.

How to apply

Interested? Please submit your expressive letter of application including your earliest possible start date together with a detailed CV, your Master's certificate (or equivalent), and three letters of reference to nico.lingg@boku.ac.at. Of course, we welcome applicants of all sexes (f/m/x), backgrounds and ages.

Project duration: June 2022 to May 2026

Application deadline: July 15th, 2022