The Austrian Centre of Industrial Biotechnology (acib) is bridging the gap between science and industry and develops more environmentally friendly and economic processes for the biotechnological, pharmaceutical and chemical industries. All these processes are modeled on methods and tools from nature. This know-how is the foundation for new and improved applications and products in the field of industrial biotechnology all over the world. Currently, more than 250 acib scientists are working on more than 150 industrial and strategic projects.

We currently offer a

**Technician position**

for

**Protein engineering with non-canonical amino acids in an industry-relevant-setting**

at the Austrian Centre of Industrial Biotechnology in Graz

The project

The demand for homogeneous, defined chemical modifications of proteins for next generation biopharmaceuticals and diagnostics is urgent and rapidly increasing. The site-specific labeling of proteins with non-canonical amino acids is an excellent tool to introduce chemical modifications at defined positions. Non-canonical amino acids contain side chains with extraordinary chemical and/or structural properties that are unavailable from the standard amino acids. The project will validate the technology in an industry-relevant-setting for the functionalization of antigen-binding proteins.

Your tasks

- cloning using synthetic biology techniques, e.g., Gibson cloning
- protein expression in *E. coli* using state-of-the-art expression systems in bioreactor cultures
- site-specific incorporation of a non-canonical amino acid into an antigen-binding protein
- protein purification using state-of-the-art chromatography equipment
- bioorthogonal conjugation chemistry for protein functionalization
- presentation of research results at regular project meetings with the company partner
- active contribution to the publication process of the results in peer-reviewed journals

Your profile

The ideal candidate holds a degree in molecular biology, biochemistry or biotechnology and has very good theoretical and practical knowledge of molecular biology methods, bioinformatics (database search, sequence analysis, vector design), as well as microbial biological techniques and 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. This is a joint project with a company partner, thus the ability to work in an interdisciplinary team, to cope with a tight schedule for the scientific experiments and to timely deliver results is essential.

How to apply

If you feel addressed, please send your expressive letter of application together with a detailed CV, your Master’s certificate (or equivalent), list of publications, statement of academic interests and three letters of reference (or contact details of three referees) to jobs@acib.at. Attachments are accepted in pdf-format only. Please indicate the reference number “02_2018” in the subject of the email. For further information please contact Dr. Birgit Wiltschi (birgit.wiltschi@acib.at).

**Project start:** April 1st, 2018

**Application deadline:** March 11th, 2018

The position will be located in the Synthetic Biology Group at ACIB in Graz and is limited to two years. We offer an inspiring environment to exploit emerging technologies for innovative biotechnological applications.

ACIB is dedicated to a well balanced gender ratio. Therefore this job advertisement addresses qualified male and female persons equally. ACIB is not part of any collective agreement under Austrian law. It is intended to offer a yearly gross payment of EUR 28,700,- for the PhD position advertised.