

Research Engineer/Scientist – Protein Engineering, Production and Automation

Affibody is looking to recruit a research engineer or scientist for Affibody's Protein Engineering, Production and Automation (PEPA) group. The location is at Affibody's premises at Karolinska Institutet, Campus Solna.

The Protein Engineering, Production and Automation (PEPA) group is scientifically and technically responsible for recombinant DNA technologies used in combinatorial library constructions and subcloning of expression plasmids, *E. coli* protein expression, purification, and characterization, stability studies, and related analyses to support the internal research process with material and results in the development of new Affibody[®] molecule candidate drugs. The PEPA group is furthermore scientifically and technically responsible for platform improvements, including scaffold/linker improvements and primary library designs. The responsibility also covers the company's informatics systems (LIMS/AKB), and automation of unit operations and data handling, bioinformatics methodologies, and artificial intelligence (AI) based strategies.

The Position

The position is focused on practical laboratory work, spanning from molecular biology, such as cloning and generation of combinatorial DNA libraries, to expression, purification, and characterization of Affibody[®] constructs. You are expected to plan and execute experiments, analyze data, and report results to meet specified timelines and objectives in the research projects.

As research engineer/scientist in the PEPA group your main responsibilities include:

- Mutation and cloning of Affibody[®] constructs using different methods, including design of strategy, DNA preparation and purification, transformation, and DNA sequencing.
- Construction of large phage display libraries using combinatorial techniques.
- Production of Affibody[®] constructs, including *E. coli* expression in microplates and shake flasks, affinity purification, RPC purification, IEX purification, and buffer exchange.
- In-process analyses, analyses of final purified product, and accelerated stability studies, including SDS-PAGE, RP-HPLC, LC/MS, SEC, Circular Dichroism, endotoxin analysis, and A280.
- Keep up to date with methods and developments within the field.
- Write SOPs and project reports.
- Document experiments and results in Electronical Laboratory Notebooks and report findings within given timelines.

Qualifications

The right candidate fulfills the following qualifications:

- Degree from an academic program within Life Science, e.g. Biotechnology, Molecular Biology, Biomedical Scientist (Swedish: BMA), or similar.
- A theoretical understanding of molecular biology and protein biochemistry.
- >3 years of hands-on experience from work with molecular biology and protein production of recombinant proteins.
- Experience from independent planning and performing experiments and analyzing and drawing conclusions from generated data in a scientific research setting.
- Practical experience of cultivation in fermentor is beneficial.
- An understanding of protein structure and biophysical properties is valuable.
- An interest in automation and contribution to the improvement of the way of working to increase productivity in the research process is beneficial.
- Industrial experience from development of biopharmaceuticals is an advantage.
- Verbal and written communication skills in English.

Personal Attributes

We are looking for someone skilled in practical laboratory work, who enjoys planning experiments and interpreting results. To succeed in this role, you need to be thorough and have a structured approach to your work, as well as the ability to be productive and ensure tasks are completed efficiently. Personal accountability is key, whether working independently or as part of a team. Excellent communication and interpersonal skills are also essential for this position.

Application

We will review applications and interview candidates continuously and welcome your application today!

Please send your application (CV and a letter describing why you think this is your next step) to jobs@affibody.se. If you have any questions about the role, please contact Head of Protein Engineering, Production and Automation, Elin Gunneriusson, at elin.gunneriusson@affibody.se.

At Affibody there is a local union club, an association for graduate professions [“Akademikerförening”] representing SACO, the Swedish Confederation of Professional Associations. To get in contact with the board members of the local union, please email AFstyrelse@affibody.se.