

Bioextrax is looking for a Downstream Bioprocessing Scientist

About the position

Bioextrax is growing fast and we are now looking for a Downstream Bioprocessing Scientist to join our team at the head office in Lund, Sweden. You will be working closely with our fermentation and analysis teams in a creative role where your tasks will range from designing and executing lab/pilot experiments to improving existing/exploring new downstream processing methods.

The position involves managing the laboratories' day-to-day running, data collection, analysis, reporting, and leading and collaborating with other team/s members. You will be responsible for downstream process conceptualisation, definition of new processes and the development and testing of strategies to improve purity and yield in a scalable and cost-efficient way.

Your responsibilities will be:

- Leading the downstream bioprocessing development and facilitate integration between downstream bioprocessing and the upstream bioprocessing teams.
- Management, design, and lab operation of pilot-scale (3- 1000 L) experiments.
- Demonstration of process scalability.
- Presentation and interpretation of results and project outcomes.
- Active contribution to the improvement of processes and methods, as well as evaluation of the patentability of the results.
- Preparation and review of protocols and Standard Operating Procedures for technology transfers.
- Preparing data for patent applications and project reports.

Specific responsibilities include developing and up-scaling downstream processing of microbial cells and products, extracting, separation, and drying extracellular and intracellular microbial products, and analysing their purity.

Qualifications

You are an ambitious Scientist with:

- PhD degree in biochemical engineering, environmental engineering, biotechnology, or related discipline with an emphasis on downstream processing with 2+ years of industry or industry related experience; or
- MSc and 8+ years of related industry or R&D experience.

You are fluent in English, both written and spoken.

Required lab experience:

- Strong knowledge and practical lab and pilot scale experience in optimizing and scaling separation and purification technologies for microbial cells and biomaterials. Large-scale separation experience is a significant advantage.
- Experience in softwares for experiment design and process analysis (such as Aspen, SuperPro, SchedulePro, DOE).

Desired experience:

- Bioprocess modelling experience for upscaling and downscaling of industrial processes.
- Industrial scale experience in downstream bioprocessing and bioproduction.
- Experience in process cost estimation and statistical experimental design.
- Downstream processing of PHAs (polyhydroxyalkanoates) and/or natural fibres.
- Extraction and purification of PHA and/or protein hydrolysates.
- Knowledge and practical experience in microbial fermentation technologies.
- Experience of technical supervision and mentoring.

It is a full-time position based in Lund, Sweden. The position may require occasional shift work (eg. evenings, night or weekends).

About you:

You have an entrepreneurial mind-set and we think that the right person can work independently as well as lead a team. It is also important that you are flexible, solution-oriented and innovative. You are a down to earth person with good interpersonal skills.

About the company

Bioextrax is an innovation-driven company using industrial biotechnology to contribute to a more sustainable future. The company is originally a spin-off from the Department of Biotechnology at Lund University and is today a rapidly growing publicly traded company.

Our vision is to be a world-leader in bio-based technologies accelerating the transition to a sustainable, green global economy. The company is consistently working to develop innovative and green solutions based on microbiology and biotechnology.

The core of our business is a highly scalable bio-based platform technology for the hydrolysis of protein-rich materials. This technology has many applications contributing to a sustainable and circular economy. Based on this platform, we are developing chemical-free methods to produce the bio-based and biodegradable biopolymers PHAs (polyhydroxyalkanoates) and turn various protein-rich materials such as poultry feathers into valuable ingredients for feed, textile, and cosmetic applications. Read more about our company and work at www.bioextrax.com.

How to apply

Welcome with your application (CV and cover letter) to Per Erik Velin at pev@bioextrax.com We will evaluate the applications on an ongoing basis. Apply no later than February 28st 2023.