

Postdoc research fellowship in microbial cell factory design

Center for Synthetic Biology, University of Tartu

Center for Synthetic Biology at University of Tartu, Institute of Technology, Estonia is newly established research center financed through ERA Chair project to carry out excellent research in the field of systems and synthetic biology. Our aim is to establish a multi-disciplinary and multicultural environment to foster new innovative ideas to create novel cell factories and biosensors.

Job description

We are looking for a motivated candidate to fill the position and be part of an iterative process for creating energy efficient microbial cell factories. The project seeks to understand translational efficiency of a cell at the level of populations and single cells; and will take advantage of synthetic circuits to design novel producer strains.

What we offer

We offer an interesting and challenging job in a young and dynamic environment developed for translational research in biotechnology and microbiology. We strive for academic excellence by valuing intellectual freedom and innovation, and promoting intra and inter-institutional collaborations.

Requirements

Applicants should have a PhD degree, or equivalent, in biotechnology, genetics, chemical or biochemical engineering, molecular biology, or another relevant field, and additionally fulfil the following:

- Exhibit strong data analysis and interpretation skills.
- Be effective at working in a team.
- Be able to communicate at an advanced level in English both orally and in writing.

Moreover, the successful candidate will be experienced in one or more of the following:

- Microbial cell culturing/fermentation, functional genomics (transcriptomics, proteomics, metabolomics, etc.), adaptive laboratory evolution and analytical chemistry.
- Have extensive knowledge in areas of microbial physiology, molecular microbiology, synthetic biology, or systems biology incl. genome-scale modeling of metabolism.
- Have strong molecular biology skills, including experience with genome engineering and molecular cloning.

Terms of employment

The period of employment is two years (preferably to begin April 2016).

The place of work is in Tartu, Estonia.

Further information

Further information can be requested from Dr. Petri-Jaan Lahtvee, lahtvee@ut.ee, tel. +372 5088 117.

Application

Applicants are requested to write a letter, in which they describe their abilities and motivation, accompanied by their curriculum vitae and the names and contact information of at least two referees. Written applications should be sent by email to lahtvee@ut.ee. Application deadline is 06 March 2016.