

## **Bioengineered high performance composites**

Supervisor: Prof. Markus Linder

Contact: [firstname.lastname@aalto.fi](mailto:firstname.lastname@aalto.fi)

We are now looking for a **Doctoral Researcher in field Genetically engineered protein-based materials.**

*Are you a passionate developer future biotechnology and synthetic biology?*

We are now looking for a doctoral researcher that will use synthetic biology and genetic engineering to develop novel materials based on natural materials such as silk. We take inspiration from natural materials and use microorganisms to produce biosynthetic versions that will in the future replace unsustainable materials such as petrochemical plastics. Join us in shaping the future!

This position is ideal for a candidate who has a background in bioscience or related field. You will be using genetic engineering, protein chemistry, and biophysical methods for achieving your goals.

### **Scientific environment**

The work will be done in the Biomolecular materials team that is headed by professor Markus Linder. We have state of the art facilities for bioengineering and an inspiring environment with several other doctoral researchers.

*In the first weeks, you will be assigned your own onboarding buddy who will help you get started with your work and studies at Aalto.*

### **Your role and goals**

You will be working in experimental procedures with recombinant DNA technology, protein production and characterization. The research will explore the biophysical processes related to materials assembly and how the properties of materials evolve from their molecular structures.

### **Your experience and ambitions**

- A keen interest to work in the lab, learn how to build your own instruments, perform your own experiments, and analyze your results.
- Excellent student track records

**An applicant must have completed by 31 July 2024 or preferably earlier (to start employment on 1 August 2024) or by 31 December 2024 or preferably earlier (to start employment on 1 January 2025)**

- a master's degree awarded by a university, or
- a study programme that in the awarding country gives eligibility for doctoral level studies

in bioscience, bioengineering, biotechnology, or a closely related field. A good command of English is required, Finnish language is not.