



We are looking for  
Tenure Track  
**Professor in  
Sustainable  
Bioproducts  
Innovation**



Aalto University



# Aalto University

## Aalto University is a multidisciplinary community of bold thinkers where science and art meet technology and business.

Aalto University is a university where research, art and education are promoted hand in hand. We are committed to **identifying and solving grand societal challenges** and building an innovative future.

With high-quality research we aim at creating significant impact on the international scientific community, industry and business, as well as the society at large. Disciplinary excellence is combined with **multidisciplinary** activities, engaging both students and the local innovation ecosystem.

Aalto has with nearly 11 000 students and more than **six schools** an 400 professors. We are an international community: more than 40% of our academic personnel have an international background.

Aalto University was **founded in 2010** as three leading Finnish universities, Helsinki University of Technology, the Helsinki School of Economics and the University of Art and Design Helsinki, were merged. Our campuses are located in Espoo and Helsinki, Finland.

The University campus in Espoo is developing into a unique, open innovation hub and a center of collaboration that attracts partners from all around the world. It encourages sharing of ideas, inter-disciplinary encounters, creativity, growth and entrepreneurship. The core of the campus will be a vibrant city with versatile services and attractive places to meet.



Aalto University

More info at  
[aalto.fi](https://aalto.fi)



# School of Chemical Engineering

## Providing novel solutions to help society transform on a sustainable economy based on utilization of natural resources.

The School of Chemical Engineering combines natural sciences and engineering in a unique way. Research carried out at the School is focused on forest products technologies, chemical engineering, industrial biotechnology, materials science and nanotechnology, metals and minerals processing and energy technology. The activities cover the whole chain from scientific research and theory to processes resulting in innovative products and applications. The School is backed by strong cooperation with the business world: new knowledge created through research is used to reform industry and promote new forms of business.

**A''**

Aalto University  
School of Chemical  
Engineering

The school has **three departments**: Bioproducts and Biosystems, Chemical and Metallurgical Engineering, Chemistry and Materials Science.

It hosts two infrastructures: Bioeconomy infrastructure that enables research from molecular level to biobased technology concepts; Raw Materials research infrastructure supports the research of circular economy targeting to closed metallurgical and hydrometallurgical processes and inorganic energy materials.

The school has **480 staff** members in total, 45 professors and 150 doctoral students and approximately 800 students annually. It educates a wide range of responsible, broad-minded experts for industry.

More info at  
[chem.aalto.fi](https://chem.aalto.fi)



# Department of Bioproducts and Biosystems

## **The department of Bioproducts and Biosystems (BIO2)**

<https://www.aalto.fi/en/department-of-bioproducts-and-biosystems>

one of the three departments in the School of Chemical Engineering at Aalto University, has an internationally leading reputation in basic and applied research for the development of advanced materials from natural resources.

Bio2 is at the forefront of forest products technologies and cutting-edge biotechnology. The research at Bio2 focuses on products derived from nature through green chemistry or biotechnological methods. Our department's core competencies include synthetic biology, biochemical and biotechnical processing, the chemistry of lignocellulosic materials, pre-treatment and fractionation of biomass, downstream unit operations as well as the characterization and analysis of materials.

Bio2 is internationally recognised for its multidisciplinary engineering education development in digitalised and online learning environments.

Through a unique grant by the Jane and Aatos Erkko Foundation Aalto University is establishing a Bioinnovation Centre with the aim to accelerate the transition to a circular economy and bioeconomy, and to create opportunities for sustainable economic growth in Finland. Solving today's and tomorrow's challenges of sustainable product development based on renewable materials requires a multidisciplinary expertise and holistic understanding of the bioinnovation concept in the context of circular economy.

Aalto University is setting up an interdisciplinary doctoral program using the viewpoints of technology, design and business to address these challenges. The Bioinnovation Centre will be a multi- and interdisciplinary research and learning centre to provide Finland and the world with the most recent research knowledge in its field, top-class experts as well as product and service concepts that combine innovative design and technology with business modelling in a sustainable manner.

## **Tenure track in Aalto University**

The tenure track is open to talented individuals who have excellent potential for a scientific career. Individuals placed on the Aalto University professorial tenure track have the possibility to advance in their career through regular performance assessments, which take into account their merits in all areas of their scope of duty.

Launched in 2010, the tenure track has attracted a wide range of international applicants, giving Aalto University the possibility of recruiting top experts and young research talent to join the Aalto University community.

Read more about the Aalto University tenure track system at <https://www.aalto.fi/en/tenure-track>.



# Professor in Sustainable Bioproducts Innovation

We seek for an ambitious and enthusiastic professor in Bioproducts Innovation with a strong focus on renewable materials, sustainable design, and circular economy.

## Experience and ambitions

We are eagerly looking for a candidate, whose research interest focuses on the practices that could release the interdisciplinary potential in bioinnovation development from research ideation to commercialization. As an ideal candidate, you have a track record showing cooperation with company partners and wide understanding and demonstrated capability to cooperate with various stakeholders. We are also looking for a passionate educator and we stress the importance of teaching and educational activities within the field.

## What we value

We look for applicants who have:

- ✓ experience in research on sustainable bioproducts that involves users and business
- ✓ capability for interdisciplinary research, possibly with experience in the transition of research to commercialization
- ✓ excellence in own field (technology, design, or business) and success in interdisciplinary collaboration
- ✓ evidence of motivation and capability to create and sustain an encouraging research environment for inventions and innovations through disciplinary and interdisciplinary collaboration
- ✓ capability to create collaboratively new interdisciplinary research with practice-relevant impact in bioinnovation in the context of circular economy
- ✓ doctoral degree in a relevant field

Applicants will be reviewed on the basis of their research achievements, teaching merits and activity in the scientific community in relation to their career stage.

## Role and goals

- ✓ Enhance the research and teaching that fosters the concept of true interdisciplinarity envisioned by the Bioinnovation Centre rather than just your own research agenda
- ✓ Take an active role in the Bioinnovation Centre doctoral school
- ✓ Strengthen the collaboration between Aalto University's fields (technology, design, and business) related to biobased materials
- ✓ Promote and develop collaboration between Aalto University and external stakeholders together with the Bioinnovation Centre community
- ✓ Supervise master and doctoral students

## How to apply

To apply, please share the following application materials :

- ✓ Application letter
- ✓ Curriculum Vitae
- ✓ List of publications
- ✓ A research statement describing past research and plans for future research and/or similar for artistic activities
- ✓ Teaching portfolio
- ✓ Names and contact information for references

General instructions: <https://www.aalto.fi/en/tenure-track/interested-in-joining-our-tenure-track>.

## Deadline for applications is November 14, 2021

Please see the complete job add and apply online through the link below [https://aalto.wd3.myworkdayjobs.com/en-US/aalto/job/Otaniemi-Espoo-Finland/Tenure-track-or-tenured-position-in-Sustainable-Bioproducts-Innovation\\_R31937](https://aalto.wd3.myworkdayjobs.com/en-US/aalto/job/Otaniemi-Espoo-Finland/Tenure-track-or-tenured-position-in-Sustainable-Bioproducts-Innovation_R31937)

If you wish to hear more about the position, you can reach out to Professors Michael Hummel (Director of the Bioinnovation Center) or Monika Österberg (Head of Bio2 Department). In questions related to the recruitment process, HR Coordinator Sanni Mero. E-mails ([firstname.lastname@aalto.fi](mailto:firstname.lastname@aalto.fi)).



# Working at Aalto University

## Why join us?

Established in 2010 as a merger of three leading Finnish Universities, we are both **challenger of the old, and traditional with strong history** and legacy.

Our unique combination of fields in **art and design, technology and business enable multi-disciplinarity** and finding clever solutions for the world's most wicked problems in the interfaces of these fields.

We aim for **societal impact**, educating game changers to drive sustainability.

We enjoy working at our evolving **collaborative campus close to the heart of Helsinki**, with good connections, great architecture and amazing nature.

We are **international and diverse**: more than 40 % of our faculty comes from outside of Finland. Our working environment is multi-cultural, widely English-speaking and its easy to settle in, despite of wherever you come from.

**We have strong [academic standing and reputation in our key fields](#)** – Aalto University is among top 10 of New Universities in the world (QS ranking).

Our **well-functioning and fair Tenure Track career system** enables building a successful academic career, providing support for fulfilling your professional ambitions.



# Living in Finland

Finland is [among the best countries in the world](#) according to many quality of life indicators, including being the [happiest country in the world \(UN study 2018\)](#).

We are humble people, but dare to say we have **one of the most advanced education systems in the world**.

The Nordic values of **equality and co-operation** are rooted deeply into our society. We are one of the world's top countries in press freedom and consider the many voices in our society a strength.

With high investments in R&D, a strong innovation culture, open data and advanced state of digitalization, we are a nation of **innovation and entrepreneurship**.

Gender equality, flexibility and low hierarchy are at the core of our **Nordic working environment**. Professional ambitions can be combined with a fulfilling personal life.

We are one of the world's most **reliable and stable** nations with low levels of corruption and high level of safety. We are proud to provide exceptionally high standards of social security and healthcare, financed by the state.

Having four distinct seasons, clean air and thousands of lakes, we are some nature-loving people and take good care of our **unique environment**. We enjoy our midnight sun in the summer and northern lights in the winter.

Finnish language is known to be a bit on the complicated side, but don't worry, we Finns are fluent in English, and have an **international mindset**.

We have **wide and reliable transport networks**, with Helsinki airport serving over 100 direct destinations. The comprehensive public transport makes it easy to commute. Our campus is situated within a 10 minute metro ride from the heart of Helsinki.

Want to live in the best country in the world?

More about [Helsinki](#)

More about [Espoo](#)

More about [Finland](#)

More about [working at Aalto](#)

**Aalto University –  
a community of  
game changers**  
*aalto.fi*



**Aalto University**