



**We are looking for
Tenure Track
Professor in Circular and
Sustainable Chemical
Engineering**



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



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.

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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



Department of Chemical and Metallurgical Engineering

Department of Chemical and Metallurgical Engineering is one of the three departments in the School of Chemical Engineering at Aalto University.

The unique competitive edge of the Department of Chemical and Metallurgical Engineering in the School of Chemical Engineering is based on sustainable utilization of raw materials, designing more efficient processes and developing new materials and products.

Our department's areas of expertise enable sustainable future with high performance products and processes in circular economy and bioeconomy. The department is in a key position in research of chemical engineering, materials technology, metals processing, efficient energy technologies and digitalization of these.


Our core competences include unit operations and processes in chemical engineering, hydro- and pyro-metallurgy, catalyst and polymeric materials, novel catalytic process, process control and process systems engineering.

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 Circular and Sustainable Chemical Engineering

We are looking for a dedicated professional with ambition for ground-breaking academic work in the field of Circular and Sustainable Chemical Engineering. We expect you to have strong expertise in Chemical Engineering unit operations and processes for Sustainable and Circular production processes. The field can include chemical, metallurgical, polymer and bio-based industries.

The position will be in core to influence the disruption to sustainability and circularity, thus we appreciate the professor to:

- Teach at all the levels
- Produce high-quality research that can be published in peer-reviewed journals
- Integrate new interdisciplinary concepts from research output into educational activities, programs and curricula
- Initiate research projects on circular economy, such as: utilization of raw materials, material development, recycling of energy and materials, digitalization, analysis and design of novel processes, carbon capture and storage as well as life cycle and sustainability assessment
- Contribute in energy transition including hydrogen technologies and Power-to-X.
- Employ modern digital interfaces in research and education, system-level approach in design, life cycle and sustainability assessment, materials and energy integration
- Disseminate research results and contribute to the progress of the school and department, its international visibility and interaction with the society.

A doctoral degree in chemical engineering or in a related field is a prerequisite for the position. The applicants will be reviewed based on their excellence and future potential in scientific research and teaching, and their active role within the international science community.

How to apply

Please share the following application materials with us:

- Application letter
- Curriculum
- List of publications (with 10 most relevant publications regarding this position highlighted)
- A research work portfolio describing your past research and plans for future research and 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 January 31st, 2022

Please see the complete job add and apply online through the link below

https://aalto.wd3.myworkdayjobs.com/aalto/job/Otaniemi-Espoo-Finland/Professor-in-Circular-and-Sustainable-Chemical-Engineering_R32045

If you wish to hear more about the position, you can reach out to Professor, Vice Dean Jukka Seppälä or Professor, Head of Department Ville Alopaeus. In questions related to the recruitment process, HR Coordinator Alice Björklund. Emails (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



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