

Assistant Professor, Metallic Engineering Materials
Aalto University

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Posted Oct. 13, 2025, set to expire Feb. 12, 2026

Job Title Assistant Professor, Metallic Engineering Materials
Department T212 Department of Energy and Mechanical Engineering
Institution Aalto University
, , Finland

Date Posted Oct. 13, 2025

Application Deadline Open until filled
Position Start Date Available immediately

Job Categories Assistant Professor

Academic Field(s) Material/Metallurgy

Job Website https://aalto.wd3.myworkdayjobs.com/aalto/job/Otaniemi-Espoo-Finland/Assistant-Professor--Metallic-Engineering-Materials_R44457

Apply By Email

Job Description

Aalto University is where science and art meet technology and business. We shape a sustainable future by sparking the game changers of tomorrow and by creating novel solutions to major global challenges. Our community is made up of 13,000 students, 400 professors and close to 4 500 other staff members working on our vibrant campus in Espoo, Greater Helsinki, Finland. We actively work to ensure our community's diversity and inclusiveness. This is why we warmly encourage qualified candidates from all backgrounds to join our community.

The School of Engineering drives science and innovation in industrial and built environment technologies. We are committed to educating a new generation of experts who combine technical excellence with a deep understanding of sustainable development in shaping societies. Our research focuses on sustainable built environment, mechanics and materials, multidisciplinary energy technology, and design and implementation of technical systems. The strength of our school lies in

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close collaboration with stakeholders across research and education. About 45 doctoral candidates and 350 master's students graduate from the school every year. The school is home to 700 staff members, including 70 professors. To learn more, please visit eng.aalto.fi.

The Department of Energy and Mechanical Engineering at the Aalto University School of Engineering invites applications for the position of

Assistant Professor in Metallic Engineering Materials (tenure track)

The [\[url=https://www.aalto.fi/en/departments-of-energy-and-mechanical-engineering\]](https://www.aalto.fi/en/departments-of-energy-and-mechanical-engineering)Department of Energy and Mechanical Engineering is a community of around 300 staff members - including 30 tenure track professors - assembled to research, teach, create, and develop solutions for society's needs. Key research areas include marine and arctic technology; energy technologies and systems; mechanical systems and mechatronics; and materials, manufacturing, and product development. We have strong links to industry, creating lasting impact in both business and society.

We are now looking for an assistant professor to join the Materials to Products (M2P) research group at the Department of Energy and Mechanical Engineering. In this position, you can make a large visible impact by advancing analytical, experimental, and computational research on materials science, with a focus on metallic alloys.

The Materials to Products (M2P) research group investigates the properties and performance of engineering materials processed by advanced and sustainable manufacturing, integrated in the circular economy. The starting point in modern production at M2P is digital data, generated and optimized. Research methods encompass multiscale and multiphysics modelling, mechanical testing and microstructure characterization, and digital measurement and quality control techniques. Among the applications in green processes and methods, special emphasis goes to the influence of hydrogen in materials for safe energy applications, to new sustainable manufacturing solutions, and to additive manufacturing.

Located on the serene Aalto University Campus in Otaniemi, Espoo, this position offers a unique opportunity to influence the future positively.

As a tenure-track faculty member, you are expected to complement our current academic expertise by bringing new ideas and perspectives to our community.

Your role and goals

We are eagerly looking for a candidate with holistic competences in materials science, whose research interests are motivated by grand challenges in engineering. An ideal candidate has experience in cooperation with company partners and other stakeholders. The aim of this position is to improve the performance of materials that are relevant for Finnish export industries. More generally, you will: *

Lead engineering materials research by building your own team and securing competitive funding *

Produce high-quality research that is published in respected peer-reviewed journals *

Inspire students, and impart to them the knowledge, skills, and attitudes that will enable them to excel *

Benefit society and industry through the impact of your work *

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Support the operations of the Department of Energy and Mechanical Engineering and School of Engineering, within the scope of the tenure track professorship

Your experience and ambitions

A relevant doctoral degree is required for this position. Your publications preferably demonstrate a strong focus on engineering alloys and show evidence of your ability to translate scientific research to practical level solutions and innovations. Experience of directly supporting policymaking with your research results and working together with companies in your research projects are considered assets. In research, the candidate should have experience in several of the following topics. *

Experimental skills in microstructural analysis *

Experimental skills in mechanical testing (destructive or nondestructive) *

Computational skills in multiscale modelling of materials and their evolution during thermomechanical processing *

Theoretical and applied knowledge of physical metallurgy *

Selection of materials *

Optimization of manufacturing processes

Furthermore, we are looking for a passionate educator, and we cannot overstate the importance of teaching and learning activities within the field. In education the candidate is expected to *

Teach courses in materials science and manufacturing in our study programs, with a typical teaching load of two or three courses per year *

Supervise B.Sc., M.Sc., and D.Sc. students (often with company partners) *

Develop their teaching skills and competences throughout their career *

Participate in curriculum development and educational leadership *

Contribute to Aalto University's offerings in Life-Wide Learning

In the long term, your work will have a social impact with a broader perspective, by *

Supporting society and industry in driving the business potential of sustainability *

Creating national and international networks with industrial stakeholders to boost synergies for research and technology renewal *

Looking for innovative solutions aiming to renew existing companies and creating start-ups

As a summary, we have an interesting position for an outgoing young academic, who can network with academic and industrial communities at Aalto University and beyond. However, for the right candidate the best part of the job is working with our students and staff.

What we offer

Aalto University provides an inspiring environment for the growth of young talents. Our university has several globally highly ranked fields of expertise and it is one of the most international universities.

This position belongs to our tenure track system ([url=<https://www.aalto.fi/en/tenure-track>])<https://www.aalto.fi/en/tenure-track>) and will be filled to the assistant professor level. Our tenure track system is comparable with the standards of other world-class universities. It is based on the principle of commitment from university and individual to academic career: it has clearly defined

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expectations, incentives, and assistance in personal development. Please read more about our tenure track evaluation criteria and requirements at [\[url=https://www.aalto.fi/en/services/tenure-track-evaluation-criteria\]](https://www.aalto.fi/en/services/tenure-track-evaluation-criteria)<https://www.aalto.fi/en/services/tenure-track-evaluation-criteria>.

The salary is based on Aalto University salary system, but you can also provide your own salary request.

Ready to apply?

If you are inspired to join us, please submit your application by November 24, 2025 (23:59 Finnish time) through our recruiting system by using the ["Apply now!"](#) link. Please include the following documents in English as one pdf file: *

Motivation letter *

Curriculum vitae - Please use the [\[url=https://tenk.fi/en/advice-and-materials/template-researchers-curriculum-vitae\]](https://tenk.fi/en/advice-and-materials/template-researchers-curriculum-vitae)template (opens in new window) recommended by The Finnish Advisory Board on Research Integrity (TENK) *

Research work portfolio - For instructions, visit [\[url=https://www.aalto.fi/sites/default/files/2023-03/Liite%201%2020230222%20Aalto%20Tenure%20Track%20Policies%20and%20Procedures_ENG.pdf\]](https://www.aalto.fi/sites/default/files/2023-03/Liite%201%2020230222%20Aalto%20Tenure%20Track%20Policies%20and%20Procedures_ENG.pdf)pdf and Procedures -document, page 24 *

The list of publications (with five most significant publications highlighted) *

Copies of the five most significant publications and justification for significance in these five publications and your role in them described *

Teaching portfolio - See [\[url=https://www.aalto.fi/sites/default/files/2024-03/Teaching-competence-assessment_Guidelines-for-a-candidate_2024_Aalto-University.pdf\]](https://www.aalto.fi/sites/default/files/2024-03/Teaching-competence-assessment_Guidelines-for-a-candidate_2024_Aalto-University.pdf)Teaching portfolio guidelines for candidate (pdf) *

Names, positions, affiliations and e-mail addresses of three (3) senior research leaders available for providing recommendation letters

General instructions for applicants including language requirements and guidelines for compiling the teaching portfolio and CV are at [\[url=https://www.aalto.fi/tenure-track/interested-in-joining-our-tenure-track\]](https://www.aalto.fi/tenure-track/interested-in-joining-our-tenure-track)<https://www.aalto.fi/tenure-track/interested-in-joining-our-tenure-track>.

Please note: Aalto University's employees should apply for the position via our internal HR system Workday (Internal Jobs) by using their existing Workday user account (not via the external webpage for open positions). If you are a student or visitor at Aalto University, please apply with your personal email address (not aalto.fi) via [\[url=https://www.aalto.fi/en/careers-at-aalto\]](https://www.aalto.fi/en/careers-at-aalto)Aalto University open positions. Aalto University reserves the right for justified reasons to leave the position open or to extend the application period.

For more information

If you wish to hear more about the position, you can reach out to professor Petri Kuosmanen, [petri.kuosmanen\(at\)aalto.fi](mailto:petri.kuosmanen@aalto.fi). In case you have questions related to the recruitment process, please contact HR Partner Jenni Koivisto, [jenni.koivisto\(at\)aalto.fi](mailto:jenni.koivisto@aalto.fi).

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Want to know more about us and your future colleagues? You can watch these videos:

[url=<https://www.youtube.com/watch?v=i8zawpNMVG8>]This is Aalto University!

[url=https://www.youtube.com/watch?v=5k_og_6zUJQ]Aalto University - Towards a better world
and [url=https://www.youtube.com/watch?v=ZK6pDWm1_CE]Shaping a Sustainable Future.

Read more about working at Aalto: [url=<https://www.aalto.fi/en/careers-at-aalto>]
<https://www.aalto.fi/en/careers-at-aalto>

Check out our new virtual campus experience: [url=<https://virtualtour.aalto.fi/>]
<https://virtualtour.aalto.fi/>

About Finland

Finland is a great place for living with or without family - it is a safe, politically stable and well-organized Nordic society. Finland is consistently ranked high in quality of life and was listed again as the happiest country in the world: [url=<https://worldhappiness.report/news/world-happiness-report-2024-most-comprehensive-picture-yet-of-happiness-across-generations/>]
World Happiness Report 2024

For more information about living in Finland: [url=<https://www.aalto.fi/en/careers-at-aalto/for-international-staff>]
Aalto Careers for International Staff .

Contact Information

Please reference Academickeys in your cover letter when
applying for or inquiring about this job announcement.

Contact

Finland