

Professor, Pyrometallurgy  
Aalto University

Direct Link: <https://www.AcademicKeys.com/r?job=261039>

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Posted Aug. 12, 2025, set to expire Dec. 31, 2025

**Job Title** Professor, Pyrometallurgy  
**Department** T106 Chemical and Metallurgical Eng  
**Institution** Aalto University  
, , Finland

**Date Posted** Aug. 12, 2025

**Application Deadline** Open until filled  
**Position Start Date** Available immediately

**Job Categories** Professor

**Academic Field(s)** Material/Metallurgy

**Job Website** [https://aalto.wd3.myworkdayjobs.com/aalto/job/Otaniemi-Espoo-Finland/Professor--Pyrometallurgy\\_R43640](https://aalto.wd3.myworkdayjobs.com/aalto/job/Otaniemi-Espoo-Finland/Professor--Pyrometallurgy_R43640)

**Apply By Email**

**Job Description**

Aalto University is a community of bold thinkers where science and art meet technology and business. We are committed to identifying and solving grand societal challenges and building an innovative future. Aalto has six schools with nearly 11 000 students and a staff of more than 4000, of which 400 are professors. Our main campus is located in Espoo, Finland. Diversity is part of who we are, and 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 unique competitive edge of the [url=https://www.aalto.fi/en/department-of-chemical-and-metallurgical-engineering]Department [url=https://www.aalto.fi/en/department-of-chemical-and-metallurgical-engineering]of [url=https://www.aalto.fi/en/department-of-chemical-and-metallurgical-engineering]Chemical [url=https://www.aalto.fi/en/department-of-chemical-and-metallurgical-engineering]and [url=https://www.aalto.fi/en/department-of-chemical-and-metallurgical-engineering]Metallurgical [url=https://www.aalto.fi/en/department-of-chemical-and-metallurgical-

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engineering]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.

The Department of Chemical and Metallurgical Engineering at Aalto University School of Chemical Engineering invites applications for the position of

#### PROFESSOR IN PYROMETALLURGY

The position can be filled at any level of the Aalto tenure track system (assistant, associate or full professor). The position is full-time and, depending on the positioning on the tenure track, either on fixed or permanent term.

#### The position and our expectations

Aalto University has a unique competence in process metallurgy, with competences covering all parts of the metallic raw materials value chain, from minerals processing to purification and recycling. To complement this expertise, we are looking for a world-class academic leader with strong expertise in high-temperature processes for the position of Professor in the field of Pyrometallurgy. The position is placed at the Department of Chemical and Metallurgical Engineering and aims to support one of the key research areas of Aalto: materials and sustainable use of natural resources.

The Professor in Pyrometallurgy will be responsible for the teaching and development of educational activities at the Bachelor, Master and post-graduate levels, including theoretical courses and laboratory practice. The Professor will conduct research in the field of high-temperature extractive metallurgy, with an emphasis on material- and energy efficient processing of raw materials, recycling, processing metals from low-grade and complex primary and secondary resources. It is also expected that the Professor in Pyrometallurgy will be proficient in the utilization of experimental methods, as well as digital and modelling tools in research and education. In addition, the successful candidate will play a key role as part of the national metallurgical ecosystem, involving academic and industrial partners.

It is expected that the Professor in this position will directly influence activities on the sustainable use of natural resources, metals refining and recycling and the development of disruptive technologies towards sustainability. Thus, your responsibilities will include:

- \* Attract competitive funding to initiate research projects on metallurgical refining and recycling and

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utilization of low-grade and complex raw materials \* Produce high-quality research that can be published in peer-reviewed journals \* Teach at bachelor and graduate levels \* Initiate and execute research and education projects of an interdisciplinary nature \* Integrate new interdisciplinary concepts from research output into educational activities, programs, and curricula \* Disseminate research results to various interest groups including professionals, students, and academics \* Contribute proactively and collegially to the progress of the school and department and its international visibility \* Possess practical expertise in societal activities, industry collaboration, entrepreneurial promotion, interaction with stakeholders and collaboration with decision-makers.

#### Your experience and ambitions

A doctoral degree in Materials Science and Engineering, Metallurgy, Chemical Engineering, or 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 scientific community. We appreciate team players who can build collaborative projects with industry and other research groups within Aalto University, and externally. The successful candidate should have a clear plan to develop an outstanding and dynamic research practice actively contributing to the community in the field.

#### What we offer

The successful candidate will have the opportunity to join a vibrant community of researchers and contribute to the department's strong reputation for excellence in chemical and metallurgical engineering research and education.

At Aalto University you have the possibility to work within a well-resourced learning community where the students are rigorously selected and highly motivated. This results in an unusually interactive and intellectually challenging atmosphere.

The successful candidate will have access to national infrastructure funded by the Research Council of Finland hosted at the School of Chemical Engineering. The Department has world-class facilities for experimental studies of pyrometallurgical processes, as well as versatile material analysis and characterization equipment. In addition, we offer access to extensive digital tools for process simulation, thermodynamic and kinetics modeling in high temperature metallurgy.

The salary is determined based on the experience and qualifications of the selected candidate. As an employer, Aalto University provides excellent staff training and mentoring programs, as well as occupational health care services, commuter ticket benefits and campus sport facilities. In addition, we offer extensive research support services such as grant writing and project management.

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More information about living and working in Finland

[url=https://www.aalto.fi/en/careers-at-aalto/for-international-staff]https://www.aalto.fi/en/careers-at-aalto/for-international-staff[url=https://www.aalto.fi/en/careers-at-aalto/for-international-staff]international[url=https://www.aalto.fi/en/careers-at-aalto/for-international-staff]-[url=https://www.aalto.fi/en/careers-at-aalto/for-international-staff]staff[url=https://www.aalto.fi/en/careers-at-aalto/for-international-staff].

The Department is located in the Otaniemi campus of Aalto University in Espoo (Helsinki metropolitan area).

Ready to apply?

If you want to join our community, please submit your application through our recruitment system by September 21st, 2025. (If you are already working at Aalto, please apply via our internal system Workday -> Find Jobs.)

To apply, please share the following application materials with us in English and in PDF: \* Application letter \* Curriculum Vitae - please use the [url=https://tenk.fi/en/advice-and-materials/template-researchers-curriculum-vitae]template recommended by The Finnish Advisory Board on Research Integrity. Please also include names and contact information for references \* List of publications (with 10 most relevant publications regarding this position highlighted) \* Research statement describing your research experience and detailed plans for future research and activities \* Teaching portfolio (please see the University's instructions and make sure your teaching portfolio complies with them. See

[url=https://www.aalto.fi/sites/g/files/flghsv161/files/2021-

01/Teaching%20competence%20assessment\_Guidelines\_for\_candidate\_2020\_Aalto%20University\_FINAL.p

[url=https://www.aalto.fi/sites/g/files/flghsv161/files/2021-

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[url=https://www.aalto.fi/sites/g/files/flghsv161/files/2021-

01/Teaching%20competence%20assessment\_Guidelines\_for\_candidate\_2020\_Aalto%20University\_FINAL.p

[url=https://www.aalto.fi/sites/g/files/flghsv161/files/2021-

01/Teaching%20competence%20assessment\_Guidelines\_for\_candidate\_2020\_Aalto%20University\_FINAL.p

[url=https://www.aalto.fi/sites/g/files/flghsv161/files/2021-

01/Teaching%20competence%20assessment\_Guidelines\_for\_candidate\_2020\_Aalto%20University\_FINAL.p

General instructions for applicants including evaluation criteria, language requirements and guidelines for compiling your CV and teaching portfolio are given at [url=https://www.aalto.fi/en/tenure-track/interested-in-joining-our-tenure-

track]https://www.aalto.fi/en/tenure[url=https://www.aalto.fi/en/tenure-track/interested-in-joining-our-tenure-track]https://www.aalto.fi/en/tenure-track/interested-in-joining-our-tenure-

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Aalto University will use external reviewers to support the evaluation of applicants during the recruitment process. Based on the application materials and external evaluations, the Departmental Committee will choose the most suitable applicants to visit the Department of Chemical and Metallurgical Engineering and deliver teaching demonstrations.

If you wish to hear more about the position, you can reach out to Professor Rodrigo Serna. In questions related to the recruitment process, HR Partner Alice Björklund. Emails (firstname.lastname@aalto.fi).

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

[url=https://www.youtube.com/watch?v=5k\_og\_6zUJQ]Aalto

[url=https://www.youtube.com/watch?v=5k\_og\_6zUJQ]Univer[url=https://www.youtube.com/watch?v=5k\_og\_6zUJQ]

[url=https://www.youtube.com/watch?v=5k\_og\_6zUJQ]-

[url=https://www.youtube.com/watch?v=5k\_og\_6zUJQ]Towards

[url=https://www.youtube.com/watch?v=5k\_og\_6zUJQ]a

[url=https://www.youtube.com/watch?v=5k\_og\_6zUJQ]better

[url=https://www.youtube.com/watch?v=5k\_og\_6zUJQ]world[url=https://www.youtube.com/watch?v=5k\_og\_6zUJQ]

[url=https://www.youtube.com/watch?v=dUfEGVM-ZP8&feature=youtu.be]Aalto

[url=https://www.youtube.com/watch?v=dUfEGVM-ZP8&feature=youtu.be]People , and

[url=https://www.youtube.com/watch?v=ZK6pDWm1\_CE]Shaping

[url=https://www.youtube.com/watch?v=ZK6pDWm1\_CE]a

[url=https://www.youtube.com/watch?v=ZK6pDWm1\_CE]Sustainable

[url=https://www.youtube.com/watch?v=ZK6pDWm1\_CE]Future[url=https://www.youtube.com/watch?v=ZK6pDWm1\_CE]

And this webpage about Aalto and Finland. [url=https://www.aalto.fi/en/services/welcome-to-aalto-university-and-finland-info-

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package]https://www.aalto.fi/en/services/welcome[url=https://www.aalto.fi/en/services/welcome-to-aalto-university-and-finland-info-package]-[url=https://www.aalto.fi/en/services/welcome-to-aalto-university-and-finland-info-package]to[url=https://www.aalto.fi/en/services/welcome-to-aalto-university-and-finland-info-package]-[url=https://www.aalto.fi/en/services/welcome-to-aalto-university-and-finland-info-package]aalto[url=https://www.aalto.fi/en/services/welcome-to-aalto-university-and-finland-info-package]-[url=https://www.aalto.fi/en/services/welcome-to-aalto-university-and-finland-info-package]university[url=https://www.aalto.fi/en/services/welcome-to-aalto-university-and-finland-info-package]-[url=https://www.aalto.fi/en/services/welcome-to-aalto-university-and-finland-info-package]and[url=https://www.aalto.fi/en/services/welcome-to-aalto-university-and-finland-info-package]-[url=https://www.aalto.fi/en/services/welcome-to-aalto-university-and-finland-info-package]finland[url=https://www.aalto.fi/en/services/welcome-to-aalto-university-and-finland-info-package]-[url=https://www.aalto.fi/en/services/welcome-to-aalto-university-and-finland-info-package]info[url=https://www.aalto.fi/en/services/welcome-to-aalto-university-and-finland-info-package]https://www.aalto.fi/en/services/welcome-to-aalto-university-and-finland-info-package[url=https://www.aalto.fi/en/services/welcome-to-aalto-university-and-finland-info-package]package

Check out our new virtual campus experience:

[url=https://virtualtour.aalto.fi/]https://virtualtour.aalto.fi/[url=https://virtualtour.aalto.fi/]

### Tenure track in Aalto University

The position is a tenure track position. Individuals appointed to the tenure track have the opportunity to conduct research and/or artistic work and teach in order to build academic merits towards qualifying for an appointment to a tenured position.

Since 2010, the tenure track has attracted a wide range of international applicants, giving Aalto University the possibility of recruiting top experts and young talent to join the Aalto University community. Throughout their careers, those in the tenure track system are expected to conduct and supervise artistic/scientific research and/or artistic/design work, to provide related academic education, contribute to developing their field or discipline, as well as contribute to academic service the university and beyond in the society. For more information on the tenure track system of Aalto University, please see [url=https://www.aalto.fi/en/tenure-track]https://www.aalto.fi/en/tenure[url=https://www.aalto.fi/en/tenure-track]-[url=https://www.aalto.fi/en/tenure-track]track[url=https://www.aalto.fi/en/tenure-track].

### 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 just listed again as the happiest country in the world: [url=https://worldhappiness.report/news/its-a-three-peat-finland-keeps-

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top-spot-as-happiest-country-in-world/]https://worldhappiness.report/news/its-a-three-peat-finland-keeps-top-spot-as-happiest-country-in-world/. For more information about living in Finland: [url=https://www.aalto.fi/en/careers-at-aalto/living-in-finland]https://www.aalto.fi/en/careers-at-aalto/living-in-finland & [url=https://www.aalto.fi/en/services/welcome-to-aalto-university-and-finland-info-package]https://www.aalto.fi/en/services/welcome-to-aalto-university-and-finland-info-package

Aalto University has been awarded with HR Excellence in Research quality label in European Commission, guaranteeing that we adhere to top quality HR practices in both recruitment and employment relations.

**Contact Information**

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

**Contact**

Finland