

Professor of Rock Engineering Aalto University

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Posted Dec. 2, 2024, set to expire Mar. 30, 2025

Job Title Professor of Rock Engineering
Department T214 Civil Engineering
Institution Aalto University
, , Finland

Date Posted Dec. 2, 2024

Application Deadline Open until filled
Position Start Date Available immediately

Job Categories Professor

Academic Field(s) Civil Engineering

Job Website https://aalto.wd3.myworkdayjobs.com/aalto/job/Otaniemi-Espoo-Finland/Professor-of-Rock-Engineering_R41155-3

Apply By Email

Job Description

Aalto University is where science and art meet technology and business. We shape a sustainable future by making research breakthroughs in and across our disciplines, sparking the game changers of tomorrow and creating novel solutions to major global challenges. Our community is made up of 12 000 students, 400 professors and close to 4 000 other faculty and staff working on our dynamic campus in Helsinki region, Finland. Diversity is a 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.

Aalto University School of Engineering invites applications for

TENURE TRACK ASSISTANT PROFESSOR IN ROCK ENGINEERING

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The call is targeted to ambitious individuals seeking a full-time Assistant Professor position in the Aalto University tenure track system: [[url=https://www.aalto.fi/en/tenure-track/tenure-track-career-path](https://www.aalto.fi/en/tenure-track/tenure-track-career-path)]<https://www.aalto.fi/en/tenure-track/tenure-track-career-path>.

The vacancy is open at the Department of Civil Engineering, School of Engineering, Aalto University: [[url=http://civileng.aalto.fi/en/](http://civileng.aalto.fi/en/)]<http://civileng.aalto.fi/en/>. The department has 15 tenure track professors supported by lecturers, post-doctoral researchers, doctoral students and technical staff. In total, the number of personnel is about 120. The department and school have well-equipped research infrastructures and access to national scientific computing services. Furthermore, the department and school are located at the Aalto University campus in Otaniemi, Espoo, where several other research institutions and organizations have laboratories and offices.

Job description

The Department of Civil Engineering invites applications for a tenure-track assistant professor position in Rock Engineering. This position is part of one of Aalto University's key research areas, known as "Materials and Sustainable Use of Natural Resources".

Rock Engineering is a field of engineering that deals with the design and construction of structures in rock, such as underground facilities, tunnels, and mines. This field often incorporates elements of rock mechanics, excavation technologies, applied geology and structural engineering to address the unique challenges posed by working with rock as a construction material.

The position requires theoretical mastery of rock mechanics, rock excavation and tunnelling in hard rock geological environment. The candidate should have a close interest in how these themes can be addressed in the Nordic context. The candidate is expected to perform multidisciplinary research with researchers in Civil Engineering and other disciplines. Good collaboration and communication skills with industrial and public partners in the field of construction and mining, are essential.

Professors at Aalto University are expected to perform high-quality research and teaching and supervise students on the doctoral, graduate, and undergraduate levels. This position involves teaching in the Bachelor's Program in "Civil Engineering" and in the Master's Programmes "Geoengineering" and "European Mining Course".

Professors are also expected to be proactive members of the university and international scientific communities, and to exhibit leadership and service to society.

Requirements

Applicants must have a doctoral degree in relevant engineering discipline as well as international

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research activities. Teaching experience and pedagogical studies are considered beneficial in the evaluation.

Well-demonstrated collaboration skills and an excellent command of English are essential as well. The merits and potential of the applicants will be appraised via a holistic evaluation based on the quality and quantity of research, teaching, and academic leadership, in addition to the overall activity in the scientific community and society. A bibliometric analysis will be conducted for supporting the evaluation of research merits. The supplied most important research publications will be assessed with respect to their potential impact, as well as clarity of argumentation and as indicators of future research potential.

Scientific awards and recognitions as well as experience in obtaining and applying for funding, preferably academic competitive funding, are considered important advantages. Interdisciplinary research activities, roles in research organizations, student supervision and cooperation with industry are considered advantageous as well.

When recruiting for the first-term assistant professor position, the “evaluation is mainly based on the potential of the candidate” with respect to the evaluated dimensions (as notified by the tenure track evaluation criteria of Aalto University: [[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>). When appointing the second term assistant professors, the evaluation is based on demonstrated merits and potential.

What we offer

Aalto University offers the opportunity to work within a well-resourced learning community where students are rigorously selected and highly motivated. According to our strategy, Aalto University aims to shape a sustainable future through research-based knowledge, creativity, and an entrepreneurial mindset. Our core values are responsibility, courage, and collaboration.

The entry salary will be defined according to Aalto University’s salary system, taking account of the applicant’s experience and qualifications. Aalto University provides its employees with occupational healthcare services. Aalto University also offers new professors a start-up package as well as support in applying for external research funding to establish their own research team.

Finland offers a safe and healthy environment for living, with excellent state-subsidized services including affordable day care, healthcare, and free schools that are ranked among the best in the world. Finland is one of the world’s most reliable, stable and safe countries and consistently occupies top position in the annual World Happiness Report. With significant investments in R&D, a strong innovation culture, open data, and advanced digitalization, Finland is a nation of innovation and entrepreneurship.

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The Nordic values of equality and cooperation are deeply rooted in our society. Gender equality, flexibility, and low hierarchy form the core of the Nordic working environment. For more information about living and working in Finland, see:

[url=https://www.aalto.fi/en/node/32446]https://www.aalto.fi/en/careers-at-aalto/for-international-staff.

Check out our new virtual Aalto campus experience:

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

For more information

For additional information, please contact Professor Antti Peltokorpi, Department of Civil Engineering, tel. +358 50 371 6613. In questions related to the recruitment process, please contact HR Partner Merja Seppänen, tel. +358 50 593 7712. E-mail addresses follow the form `firstname.lastname@aalto.fi`.

How to apply

The application material for the position must consist of the following documents: * cover letter - addressed to Dean of the School of Engineering, including a summary of merits, most important achievements and motivation for this position at Aalto University (maximum 2 pages); * curriculum vitae - including contact information, following the structure given by Finnish Advisory Board on Research Integrity: [url=https://tenk.fi/en/advice-and-materials/template-researchers-curriculum-vitae]https://tenk.fi/en/advice-and-materials/template-researchers-curriculum-vitae; * publication list - with the five most important publications marked * research work portfolio - including a plan for future research in the position (4-10 pages); * teaching statement - motivation, teaching philosophy, experience (1-2 pages); Shortlisted candidates will be asked to supplement their applications with a teaching portfolio following the Aalto University guidelines. * three most important publications authored or co-authored by the applicant;

These documents must be combined, in the given order, into a single .pdf file and attached to the online application.

The application material must be written in English. Applications, including a single .pdf file consisting of the required application material listed above, must be submitted online through the electronic recruitment system of Aalto University no later than January 7, 2025.

A link to the recruitment system can be found at the end of this job advertisement via the text "Apply now". The general instructions and evaluation criteria for applicants, including language requirements and guidelines for compiling the application material, are given online as well:

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

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

Aalto University's employees and visitors should apply for the position via the internal HR system Workday (keyword Find Jobs) by using their existing Workday user account (not via the external webpage for open positions).

Contact Information

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

Contact

Finland