

Assistant Professor position in concrete technology
(tenure track)
Aalto University

Direct Link: <https://www.AcademicKeys.com/r?job=250705>

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Posted Dec. 19, 2024, set to expire Apr. 20, 2025

Job Title	Assistant Professor position in concrete technology (tenure track)
Department	T214 Civil Engineering
Institution	Aalto University , , Finland
Date Posted	Dec. 19, 2024
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Assistant Professor
Academic Field(s)	Civil Engineering
Job Website	https://aalto.wd3.myworkdayjobs.com/aalto/job/Otaniemi-Espoo-Finland/Assistant-Professor-position-in-concrete-technology--tenure-track-_R41128-1

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

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technology, and design and implementation of technical systems. The strength of our school lies in close collaboration with stakeholders across research and education. The school is home to 700 staff members, including 67 professors. To learn more, please visit eng.aalto.fi.

Aalto University School of Engineering invites applications for:

Assistant Professor position in concrete technology (tenure track)

We are looking for talented candidates for a full-time Assistant Professor position to work in a vibrant community of students, researchers and experts.

Concrete is one of the most used building materials, thus having an essential role in civil engineering research and education. At Aalto, we want to solve problems related to its climate change impact, researching low-carbon concrete, the durability of concrete structures, the quality of concrete (process and testing), as well as the concreting process and durability in a cold climate. Overall, this tenure track position is focused on concrete as a construction material, not its structural engineering aspects, and therefore the following topics are not relevant for this position: earthquake engineering, 3D printing of concrete, and chloride corrosion.

We are looking for an expert who is prepared to integrate and transform these aspects into high-level scientific research focused on concrete material technology. We particularly invite applications from candidates with expertise on the sustainability of concrete. We value a research portfolio with studies on low-carbon concretes, freeze-thaw resistance and other durability properties of concrete, non-destructive testing methods, or automated testing of concrete.

Your role and experience

Throughout their career, those in the academic tenure track career system are expected to exercise and guide scientific research, to provide related higher academic education, to follow advances in their field, to participate in service to the Aalto University community, and to take part in societal interaction and international collaboration in their field.?

We are looking for a candidate who:

* Has completed a doctoral degree relevant for the position * Has experimental experience and technical and methodological skills relevant to the field. Complementary theoretical and computational experience is highly appreciated. * Has potential to carry out research and attract research funding at the highest level * Has potential to collaborate in an interdisciplinary environment. In this professorship, cooperation with national stakeholders - both industrial and authorities - will be important. * Has

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potential to take responsibility for education and researcher training in the field * Has ability to be an effective teacher in the undergraduate and graduate degree programmes of the School of Engineering
* Fluent command in English, which is the main language of teaching and research at Aalto - Knowledge of the Finnish language, industry and culture is seen as an advantage

Your merits and potential will be appraised based on your position-relevant research of concrete, teaching and academic leadership, and activity in scientific community and society. A bibliometric analysis will be conducted for supporting the evaluation of research merits. As the position is opened at Assistant Professor level, the academic evaluation is mainly based on the potential of the candidate.

[url=https://www.aalto.fi/en/services/tenure-track-evaluation-criteria]More information about the Aalto tenure track evaluation criteria

What we offer * Research-oriented environment: We have excellent research infrastructure and high-quality laboratories * Well-resourced learning community: Opportunity to work within a well-resourced learning community, characterized by rigorously selected and highly motivated students. * Tenure Track position: A tenure track position with promotions based on merits, offering a clear and rewarding career pathway * Versatile support for your work: Support in applying for external research funding as well as excellent staff trainings and mentoring programs * Comprehensive benefits package: Includes e.g. free access to health care and campus sport services * Friendly and diverse community, which genuinely respects diversity and equality * Excellent collaboration possibilities: Opportunities for excellent collaborations within the university, fostering a rich academic network

Finland is one of the world's most reliable, stable and safe countries and consistently occupies top position in the annual World Happiness Report. 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. With significant investments in R&D, a strong innovation culture, open data, and advanced digitalization, Finland is a nation of innovation and entrepreneurship.

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 applicants selected for tenure track positions, the university provides relocation support. Aalto University encourages flexible working hours to allow a healthy balance between work and free time. For all new staff members and their families, Aalto University provides dedicated introductory social and cultural events around the year.

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The entry salary will be defined according to Aalto University's salary system, taking account of the applicant's experience and qualifications.

[\[url=https://www.aalto.fi/en/careers-at-aalto/for-international-staff\]](https://www.aalto.fi/en/careers-at-aalto/for-international-staff)More information about living and working in Finland

[\[url=https://virtualtour.aalto.fi/\]](https://virtualtour.aalto.fi/)Take a virtual tour of our campus

Contact details

For additional information, please contact Professor Simo Hostikka at the Department of Civil Engineering, tel. +358 50 447 1582. In recruitment process related questions, please contact HR Partner Merja Seppänen tel. +358 50 593 7712. Email addresses:

[\[url=mailto:firstname.lastname@aalto.fi\]](mailto:firstname.lastname@aalto.fi)firstname.lastname@aalto.fi.

Ready to apply?

The application material for the position includes: * Cover letter (1-2 pages) addressed to the Dean of the School of Engineering including a summary of merits, most important achievements and motivation for this position and Aalto University * [\[url=https://tenk.fi/en/advice-and-materials/template-researchers-curriculum-vitae\]](https://tenk.fi/en/advice-and-materials/template-researchers-curriculum-vitae)Curriculum Vitae, including contact information * Publication list and up to 3 most important publications as a single pdf-document * Research statement, including a plan for future research at Aalto (maximum 4 pages) * Teaching statement (maximum 2 pages). In addition, shortlisted candidates can be asked to supplement their applications with a teaching portfolio following the [\[url=https://www.aalto.fi/sites/g/files/flghsv161/files/2021-01/Teaching%20competence%20assessment_Guidelines_for_candidate_2020_Aalto%20University_FINAL.pdf\]](https://www.aalto.fi/sites/g/files/flghsv161/files/2021-01/Teaching%20competence%20assessment_Guidelines_for_candidate_2020_Aalto%20University_FINAL.pdf) University guidelines.

All material should be submitted in English and in pdf-format. The application materials will not be returned. Please submit your application online through Aalto University's electronic recruitment system by using the "Apply now" link no later than February 28th, 2025. Current Aalto-employees should apply through the internal system Workday by using their existing user accounts.

For general instructions and evaluation criteria, including language requirements and guidelines for compiling a CV, please visit [\[url=https://www.aalto.fi/en/tenure-track/interested-in-joining-our-tenure-track\]](https://www.aalto.fi/en/tenure-track/interested-in-joining-our-tenure-track)Tenure Track.

Aalto University reserves the right for justified reasons to leave the position open and to extend the

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application period.

More information the Department of Civil Engineering

The Department of Civil Engineering aims to build the sustainable structures of tomorrow through high-quality research, education and collaboration. Our research is backed by extensive facilities and focused on building design and construction as well as mineral-based materials and mechanics. We operate with industry on a number of important topics, including construction management, concrete technology, indoor air technology and geoengineering.

Currently, 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. We are located at the vibrant Aalto University campus in Espoo, Finland.

[url=https://www.aalto.fi/en/department-of-civil-engineering]Read more on our website.

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 tenure track for professors have the possibility to advance in their career through regular performance assessments, which consider their merits in all areas of their scope of duty. Launched in 2010, the Aalto University tenure track positions have been widely noticed and attracted a large number of international applicants. Aalto University has had the opportunity to recruit top experts as well as young research talents to join the Aalto University community. For more information, visit [url=https://www.aalto.fi/en/tenure-track]Tenure Track at Aalto University.

More about Aalto University:

[url=https://www.aalto.fi/en/node/14576]Aalto.fi

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Contact Information

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

Contact

Finland