

Postdoctoral Researcher in the field of Experimental Ice
Mechanics
Aalto University

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Posted Feb. 15, 2024, set to expire Dec. 30, 2024

Job Title	Postdoctoral Researcher in the field of Experimental Ice Mechanics
Department	T212 Mechanical Engineering
Institution	Aalto University , , Finland
Date Posted	Feb. 15, 2024
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Graduate Student
Academic Field(s)	Mechanical Engineering
Job Website	https://aalto.wd3.myworkdayjobs.com/aalto/job/Otaniemi-Espoo-Finland/Postdoctoral-Researcher-in-the-field-of-Experimental-Ice-Mechanics_R38738-3

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 University has been ranked the 9th best young university in the world (Top 50 under 50, QS 2018) and one of the world's top technology challenger universities (THE 2017), for its outside-the-box thinking on research collaboration, funding and innovation. Aalto has six schools with nearly 11 000 students and 4000 employees of whom close to 400 are professors. Our main campus is located in Espoo, capital area of Finland.

The Arctic Marine Engineering and Ice Mechanics group at the Department of Mechanical Engineering studies how sea ice deforms and fractures in different scales, and how sea ice interacts with ships and offshore windfarms. Ice-covered seas are a harsh but sensitive environment that sets stringent

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requirements for safety and efficiency for all operations on them.

Understanding how ice fractures has fundamental importance in arctic marine technology and geophysics. The fracture processes of interest include fragmentation of sea ice against polar ships, ice sheets broken by ocean waves, large leads forming in sea ice, and formation of crevasses in glaciers. The importance of ice fracture research is enhanced by global warming, which is both increasing the fragmentation of ice and changing the mechanical properties of ice. Warm ice is different than cold ice. We are now looking for a

Postdoctoral Researcher position in the field of experimental ice mechanics

The Postdoctoral Researcher will join our group and work on fracture of ice. Our international group conducts laboratory experiments to study the small-scale physical mechanisms and the parameters that impact fracture of ice. Our modern facilities include the 40m x 40m Aalto Ice and Wave Tank, a cold room with a smaller tank to make saline ice, and an environmental chamber with a wide temperature range. In ice fracture research we collaborate with University College London, the Norwegian University of Science and Technology and other universities.

You are expected to join us in designing and conducting laboratory experiments on fracture of ice, and to contribute significantly in analysing the results and publishing articles in high-impact journals. We expect you to work as an active member of our group and to participate in group meetings and in planning of our future research. In addition, you may participate in supervising students and other teaching activities, but research will be the main task.

Your experience

As the work is experimental fracture research, you need to have a PhD in mechanical engineering, civil engineering, materials science, geophysics, or related field. A successful candidate will have a demonstrated proficiency in deformation and strength of solids. Experience in laboratory work, ice mechanics, or digital image correlation (DIC) will be considered as advantage. We are using DIC in our research. Good skills in English, writing and oral, are needed.

You may apply even if you are still in the process of writing your PhD thesis. In this case, indicate it clearly in your application.

What we offer

Aalto University follows the salary system of Finnish universities. The starting salary of a postdoc is

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about 4000 €/month (gross), with a possible increase based on achievements. The annual workload of research and teaching staff at Aalto University is currently 1612 hours. The employment contract includes occupational health care, and Finland has a comprehensive social security system. The employment relationship is full-time, fixed-term (period of two years) employment at Aalto University. If funding allows, the employment can be extended.

Join us!

To apply for the position, please submit your application electronically through our online recruitment system and provide the following documents in English: * Letter of motivation, maximum one page * CV including list of publications * Degree certificates and academic transcripts * Letters of recommendation from at least two referees, or a list of references that we may contact
The deadline for applications is the 31st of March, 2024, at 23:59 Finnish time (UTC +2) and the position will be filled as soon as possible.

Aalto University reserves the right for justified reasons to leave the position open, to extend the application period, and reopen the application process.

Please note: Aalto University's employees and visitors should apply for the position via the internal HR system Workday (Internal Jobs -> Find Jobs) by using their existing Workday user account.

Further information

For additional information, please contact Professor Jukka Tuhkuri (email: [\[url=mailto:firstname.lastname@aalto.fi\]](mailto:firstname.lastname@aalto.fi)firstname.lastname@aalto.fi). In questions related to the recruitment process, please contact HR Advisor Paula Thomsson-Levä ([\[url=mailto:paula.thomsson-leva@aalto.fi\]](mailto:paula.thomsson-leva@aalto.fi)paula.thomsson-leva@aalto.fi).

More about Aalto University:

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Interested?

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

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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-top-spot-as-happiest-country-in-world/](https://worldhappiness.report/news/its-a-three-peat-finland-keeps-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)]https://www.aalto.fi/en/careers-at-aalto/living-in-finland & <https://www.aalto.fi/en/services/welcome-to-aalto-university-and-finland-info-package> .

Contact Information

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

Contact

Finland