

Postdoctoral Researcher in the heat storage modelling Aalto University

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Posted Jun. 27, 2024, set to expire Dec. 30, 2024

Job Title Postdoctoral Researcher in the heat storage modelling
Department T212 Mechanical Engineering
Institution Aalto University
, , Finland

Date Posted Jun. 27, 2024

Application Deadline Open until filled
Position Start Date Available immediately

Job Categories Post-Doc

Academic Field(s) Mechanical Engineering

Job Website https://aalto.wd3.myworkdayjobs.com/aalto/job/Otaniemi-Espoo-Finland/Postdoctoral-Researcher-in-the-heat-storage-modelling_R40168

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 in the future as well. This is why we warmly encourage qualified candidates from all backgrounds to join our community.

The Research Group of Energy Conversion and System (Department of Mechanical Engineering) educates game-changing energy and HVAC engineers and researchers, supports industries and communities in their decarbonization and green energy transition processes and performs world-class research published in high quality scientific journals.

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The Research Team of Energy Storage is now looking for a

Postdoctoral Researcher in the heat storage modelling

Are you passionate about emission-free mobility? Have you ever wondered how to apply materials developed in the lab to the real world?

We are now looking for a Postdoctoral Researcher to join an exciting research project on the thermal management of Battery Electric Buses using heat storage materials. In this project, you will have the chance to conduct cutting-edge research and have a real-world impact at the same time. You will also work in a diverse and multi-disciplinary research team, and you will develop a network of industrial and academic stakeholders.

Your role and goals

In this role you will: * Perform Comsol modelling of heat flows in larger heat storage modules. * Have knowledge on the phase change materials (PCM) and their utilization in real life applications. * Be involved in the experimental PCM testing and characterization along with their integration into electric buses for thermal management. * Collaborate with industrial and academic stakeholders on the research project * Mentor and advise other researchers up to the PhD student level * Write and publish high-quality scientific papers, present at high-impact conferences * Contribute to the drafting of grant proposals * Perform and support teaching activities

Your experience and ambitions

To excel in this role, you possess: * A doctoral degree in a relevant field * Experience in COMSOL modelling of heat transfer, preferable with PCM materials * Strong fundamentals in heat transfer and thermodynamics * Experience in the experimental synthesis and characterization of thermal energy storage materials is considered as an asset * Experience with batteries, EVs and their thermal management is also seen as an asset * Excellent scientific writing and presentation skills in English * A willingness to mentor and teach

What we offer

We offer an opportunity to work on a cutting-edge applied research project in a vibrant multi-disciplinary team focused on developing energy storage solutions for the Green Transition.

Aalto University follows the salary system of Finnish universities. The salary is determined according to the applicant's experience and qualifications. The starting salary of a postdoc is about 4000 € / month (gross), with a possible increase based on achievements. The annual workload of research and teaching staff at Aalto University is 1612 hours. The employment contract includes occupational health

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care, and Finland has a comprehensive social security system. The employment relationship is full-time, fixed-term (period of 2.5 years) employment at Aalto University. Activities are located in the Otaniemi campus of Aalto University in Espoo, part of the Helsinki capital region of Finland.

Ready to apply?

To apply for the position, please submit your application electronically through our online recruitment system and provide the following documents in English: * Motivation letter (a single PDF file, format ('lastname_firstname.pdf')) * Curriculum Vitae (a single PDF file, format ('lastname_firstname.pdf')) * List of publications - please highlight one publication where you were the main author (i.e. the person who did most of the research and the writing) (a single PDF file, format ('lastname_firstname.pdf'))

The deadline for applications is the August 5th 2024, at 23:59 EET Finnish time (UTC+2). Position is filled as soon as possible. Existing Aalto employees should apply for the position by using their Workday user account (Internal Jobs --> Find Jobs).

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

For more information

Please contact Assistant Professor Annukka Santasalo-Aarnio ([\[url=mailto:annukka.santasalo@aalto.fi\]](mailto:annukka.santasalo@aalto.fi)annukka.santasalo@aalto.fi) and project specialist Arpad Toldy ([\[url=mailto:arpad.toldy@aalto.fi\]](mailto:arpad.toldy@aalto.fi)arpad.toldy@aalto.fi) . In questions related to the recruitment system please contact [\[url=mailto:hr-eng@aalto.fi\]](mailto:hr-eng@aalto.fi)hr-eng@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 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: [\[url=https://www.aalto.fi/services/about-finland\]](https://www.aalto.fi/services/about-finland)https://www.aalto.fi/services/about-finland

More about Aalto University:

[Aalto.fi](https://www.aalto.fi)

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Aalto University has been awarded with HR Excellence in Research quality label in European

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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