

Postdoctoral Researcher in Renewable Hydrogen
Production Systems
Aalto University

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Posted Dec. 12, 2025, set to expire Apr. 13, 2026

Job Title	Postdoctoral Researcher in Renewable Hydrogen Production Systems
Department	T212 Department of Energy and Mechanical Engineering
Institution	Aalto University , , Finland
Date Posted	Dec. 12, 2025
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Post-Doc
Academic Field(s)	Energy Technology Electrical and/or Electronics
Job Website	https://aalto.wd3.myworkdayjobs.com/aalto/job/Otaniemi-Espoo-Finland/Postdoctoral-Researcher-in-Renewable-Hydrogen-Production-Systems_R45069

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

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excellence with a deep understanding of sustainable development in shaping societies. Our research focuses on sustainable built environment, mechanics and materials, multidisciplinary energy technology, and design and implementation of technical systems. The strength of our school lies in close collaboration with stakeholders across research and education. About 45 doctoral candidates and 350 master's students graduate from the school every year. The school is home to 700 staff members, including 70 professors. To learn more, please visit eng.aalto.fi.

[[url=https://www.aalto.fi/en/departments-of-energy-and-mechanical-engineering](https://www.aalto.fi/en/departments-of-energy-and-mechanical-engineering)]Department of Energy and Mechanical Engineering is a community of around 300 staff members - including 30 tenure track professors - assembled to research, teach, create, and develop solutions for society's needs. Key research areas include marine and arctic technology; energy technologies and systems; mechanical systems and mechatronics; and materials, manufacturing, and product development. We have strong links to industry, creating lasting impact in both business and society.

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.

The Research Team of Energy Storage is now looking for a

Postdoctoral Researcher in Renewable Hydrogen Production Systems

Are you passionate about green hydrogen production? Do you want to be part of green hydrogen implementation into industrial processes?

We are looking for a Postdoctoral Researcher to join research projects on green hydrogen production mainly on polymer electrolyte membrane (PEM) electrolysis stacks. You would be working in an academic project and possible in an industrial research project, if the funding for this industrial project is confirmed. In these activities, you will have the chance to design and build up a full experimental PEM electrolysis stack and plan experimental activities on both PEM and alkaline electrolyser systems. As well as conduct and supervise experiments particularly with PEM dynamic operation. You would work in collaboration with electrolyser modellers in Aalto, but your focus would be on experimental activities. You will also work in a diverse and multi-disciplinary research environment varying from electrical engineers to electrochemists. Additionally, you will develop a network of industrial and academic stakeholders.

Your role and goals

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In this role you will:

Design, order and implement a PEM electrolyser stack system built up in our laboratory
Plan and execute experimental campaign for dynamic PEM electrolyser and possible with alkaline electrolyser.

Participate in research funding application preparation

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 and present your work at high-impact conferences

Perform and support teaching activities for master level courses

Your experience and ambitions

To excel in this role, you possess:

A doctoral degree in a relevant field

Experience in planning and/or working with experimental polymer electrolyte membrane electrolysers, single cell or stack level

Experience in the electrochemical measurements and physical material characterization is considered as an asset

Experience with alkaline electrolysers is considered as an additional asset

Excellent scientific writing and presentation skills in English

A willingness to mentor to PhD and master level students as well as participating to teaching activities at master level courses

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. This project could include working with a Finnish company, supporting their experimental electrolyser research project. For this reason, there might be also security clearance from Finnish authorities.

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 care, and Finland has a comprehensive social security system. The employment relationship is full-time, fixed-term (period of 2 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?

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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 - Provide a list of your publications and clearly indicate the one for which you served as the main author, meaning you carried out the majority of the research and writing (a single PDF file, format ('lastname_firstname.pdf'))

The deadline for applications is the January 11th 2026, 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 period, and reopen the application process.

For more information

Please contact Associate Professor Annukka Santasalo-Aarnio

([\[url=mailto:annukka.santasalo@aalto.fi\]](mailto:annukka.santasalo@aalto.fi)annukka.santasalo@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 Commission, guaranteeing that we adhere to top quality HR practices in both recruitment and employment relations.

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