

Doctoral Researcher to work on sustainable, high-
performance battery cathode materials
Aalto University

Direct Link: <https://www.AcademicKeys.com/r?job=230903>

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Posted Feb. 16, 2024, set to expire Dec. 30, 2024

Job Title	Doctoral Researcher to work on sustainable, high-performance battery cathode materials
Department	T105 Chemistry and Materials
Institution	Aalto University , , Finland
Date Posted	Feb. 16, 2024
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Graduate Student
Academic Field(s)	Material/Metallurgy Chemical/Petroleum
Job Website	https://aalto.wd3.myworkdayjobs.com/aalto/job/Otaniemi-Espoo-Finland/Doctoral-Researcher-to-work-on-sustainable--high-performance-battery-cathode-materials_R38760-5

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 13 000 students, 400 professors and close to 4 500 other faculty and staff working on our dynamic campus in Espoo, Greater Helsinki, Finland. Diversity is 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.

[url=https://www.aalto.fi/en/school-of-chemical-engineering]The School of Chemical Engineering is one

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of the six schools of Aalto University. It combines natural sciences and engineering in a unique way.

The Department of Chemistry and Materials Science is looking for:

Doctoral Researcher to work on sustainable, high-performance battery cathode materials

We invite you for a challenge in developing novel cobalt-free manganese oxide-based cathode materials for lithium- and sodium-ion batteries. Your work will contribute to finding sustainable materials solutions that have impact on solving urgent questions in energy storage.

Your tasks will include developing hydrothermal, solid-state, and gas-to-solid methods to prepare the cathode materials. To build a solid understanding on the processes and materials, you will conduct electrochemical and other characterizations using the modern instruments available at Aalto University campus. You will also collaborate with the other scientists in our group and with our international network, for example on studying the cathode properties and performance in operando.

Your background and expertise

We are looking for an ambitious scientist, who enjoys working in an interdisciplinary environment learning about new methods and approaches.

We expect the candidate to have a MSc degree in chemistry, materials science, physics or closely related discipline. If you are a student close to your graduation and would be interested in this position, please do not hesitate to apply. Expertise in one of the following fields is highly valued for the candidates: *

Hydrothermal and solid-state synthesis *

Synthesis under inert conditions *

Electrochemical characterization of battery materials

What we offer

At Aalto University we conduct cutting-edge research on development of battery materials and battery systems by several research groups. Our campus in Otaniemi and the nearby area also hosts offices of several high-tech startups and international corporations, offering intriguing prospects for networking and career development.

You would work in the facilities of School of Chemical Engineering and Micronova in Otaniemi and you would join the new research group [[url=https://www.aalto.fi/en/departments-of-chemistry-and-materials-science/atomically-controlled-materials-engineering](https://www.aalto.fi/en/departments-of-chemistry-and-materials-science/atomically-controlled-materials-engineering)]Atomically Controlled Materials Engineering | Aalto University (led by assistant professor Ville Miikkulainen).

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The first employment contract is made for one year, during which you will apply for the study right in doctoral studies at Aalto University School of Chemical Engineering. Please check the student information and admission criteria at [\[url=https://www.aalto.fi/en/study-options/aalto-doctoral-programme-in-chemical-engineering\]](https://www.aalto.fi/en/study-options/aalto-doctoral-programme-in-chemical-engineering)<https://www.aalto.fi/en/study-options/aalto-doctoral-programme-in-chemical-engineering>. In particular, please pay attention to the mandatory skill level in English. Doctoral studies at Aalto University take approximately four years altogether. The starting salary for a doctoral candidate is 2600-2700 €/month.

The contract includes occupational health benefits and Finland has a comprehensive social security system.

Starting date will be on Spring of 2024, the exact date can be agreed with the selected candidate.

Ready to apply?

If you would like to join our community, please submit your application through our online recruiting system no later than 15.3.2024 by using the link provided. Please include the following documents in English.

If you are an employee at Aalto, please note: you should apply for the position via our internal system Workday (not via the external aalto.fi webpage on open positions). Use your existing Workday user account. *

Motivation letter: free form 1 page letter where you describe yourself and why you are interested in postgraduate studies and this particular position. *

CV describing education and employment history

We will start reviewing and interviewing candidates immediately. Applications will be considered until the position is filled.

If you have any questions, Prof. Miikkulainen is happy to give you more information about the position: [ville.miikkulainen\(a\)aalto.fi](mailto:ville.miikkulainen(a)aalto.fi).

Want to know more about us and your future colleagues? You can watch these videos:

[\[url=https://www.youtube.com/watch?v==5k_og_6zUJQ\]](https://www.youtube.com/watch?v==5k_og_6zUJQ)Aalto University - Towards a better world,

[\[url=https://www.youtube.com/watch?v==dUfEGVM-ZP8&feature==youtu.be\]](https://www.youtube.com/watch?v==dUfEGVM-ZP8&feature==youtu.be)Aalto People, and

[\[url=https://www.youtube.com/watch?v==ZK6pDWm1_CE\]](https://www.youtube.com/watch?v==ZK6pDWm1_CE)Shaping a Sustainable Future. You can

also check out our webpage about Aalto and Finland: [\[url=https://www.aalto.fi/en/services/welcome-to-aalto-university-and-finland-info-package\]](https://www.aalto.fi/en/services/welcome-to-aalto-university-and-finland-info-package)<https://www.aalto.fi/en/services/welcome-to-aalto-university-and-finland-info-package> and our new virtual campus experience:

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[url=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 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/. For more information about living in Finland: [url=https://www.aalto.fi/en/careers-at-aalto/why-finland]https://www.aalto.fi/en/careers-at-aalto/why-finland

Contact Information

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

Contact

Finland