

Postdoctoral researcher in the field of Plant design
Aalto University

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Posted May 28, 2024, set to expire Dec. 30, 2024

Job Title Postdoctoral researcher in the field of Plant design
Department T106 Chemical and Metallurgical Eng
Institution Aalto University
, , Finland

Date Posted May 28, 2024

Application Deadline Open until filled
Position Start Date Available immediately

Job Categories Post-Doc

Academic Field(s) Material/Metallurgy
Chemical/Petroleum

Job Website https://aalto.wd3.myworkdayjobs.com/aalto/job/Otaniemi-Espoo-Finland/Postdoctoral-researcher-in-the-field-of-Plant-design_R39825

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.

The School of Chemical Engineering is one of the six schools of Aalto University. It combines natural sciences and engineering in a unique way.

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We are now looking for a

Postdoctoral researcher in the field of Plant design research group

to carry out research under the topic of Development and assessment of sustainable production processes. Our laboratory is situated on the main campus of Aalto University in Otaniemi.

We offer a multidisciplinary research environment and staff and well-equipped laboratory. The group's research interests include: process design and synthesis for bio-based processes, cost engineering, scale-up of processes, process simulation and environmental and safety aspects of process design. For more information on the research, please see our group's web page:

[url=https://www.aalto.fi/en/department-of-chemical-and-metallurgical-engineering/plant-design]https://www.aalto.fi/en/department-of-chemical-and-metallurgical-engineering/plant-design

Your experience and ambitions

As a successful applicant you should be highly motivated in process research, development and design and have a solid background in chemical and process engineering. Industrial experience is highly appreciated and fluent skills in the English language is required. A doctoral degree (PhD) in the area of chemical or process engineering is required.

Your role and goals

Your work will be a notable part in some existing plant design projects where process design, scale-up, experimental work, and assessment of technology is included. Moreover, you will be participating in teaching or as advisor in student projects.

Your network and team

[url=https://www.aalto.fi/en/department-of-chemical-and-metallurgical-engineering/plant-design]Plant design group led by Prof. Pekka Oinas combines fundamental chemical engineering principles with process design approaches to develop and utilize methods for techno-economic assessment applicable in all areas of chemical process industry.

The unique competitive edge of the [url=https://www.aalto.fi/en/department-of-chemical-and-metallurgical-engineering]Department of Chemical and Metallurgical Engineering in the School of Chemical Engineering is based on sustainable utilization of raw materials, designing more efficient processes and developing new materials and products. Our department's areas of expertise enable sustainable future with high performance products and processes in circular economy and bioeconomy. The department is in a key position in research of chemical engineering, materials technology, metals processing, efficient energy technologies and digitalization of these. Our core

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competences include unit operations and processes in chemical engineering, hydro- and pyro-metallurgy, catalyst and polymeric materials, novel catalytic process, process control and process systems engineering.

What we offer

The postdoctoral researcher position will be filled for 2 year. The employment contract includes occupational health care benefits and Finland has a comprehensive social security system. Aalto University provides excellent learning and development opportunities, and a commuter ticket benefit. Unisport offers versatile sports facilities and exercise services with a staff discount. We work in a hybrid way, and the primary workplace is Otaniemi, Espoo. Life at the transformed campus is vibrant and filled with amazing architecture, calming nature, and a variety of cafes, restaurants, services and good connections along the recently opened metro line.

We hope you can start in the position as soon as possible.

Join us!

If you want to join our community, please submit your application through our online recruitment system no later than 07.06.2024 using the link on Aalto University's webpage ("Apply now").

Please note: Aalto University's employees should apply for the position via our internal HR system Workday (Internal Jobs) by using their existing Workday user account (not via the external webpage for open positions).

To apply, please include the following documents in English: * 1 page motivation letter specific to this project * 1 page description of previous relevant research experience * CV with a possible list of publications and the title of your doctoral/PhD thesis * List of references that we may contact

The position will be filled when a suitable candidate is found.

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

[url=https://www.youtube.com/watch?v=#61;5k_og_6zUJQ]Aalto University - Towards a better world, [url=https://www.youtube.com/watch?v=#61;dUfEGVM-ZP8&feature=#61;youtu.be]Aalto People , and [url=https://www.youtube.com/watch?v=#61;ZK6pDWm1_CE]Shaping a Sustainable Future. Read more about working at Aalto: [url=https://www.aalto.fi/en/careers-at-aalto]https://www.aalto.fi/en/careers-at-aalto

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

For further information about this position, please contact Prof. Pekka Oinas ([pekka.oinas\(at\)aalto.fi](mailto:pekka.oinas(at)aalto.fi)).

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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/en/careers-at-aalto/for-international-staff](https://www.aalto.fi/en/careers-at-aalto/for-international-staff)]<https://www.aalto.fi/en/careers-at-aalto/for-international-staff> .

Contact Information

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

Contact

Finland