

Postdoctoral researcher in the field of lignocellulose
chemistry
Aalto University

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Posted May 8, 2023, set to expire Dec. 30, 2023

Job Title	Postdoctoral researcher in the field of lignocellulose chemistry
Department	T107 Bioproducts and Biosystems
Institution	Aalto University , , Finland
Date Posted	May 8, 2023
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Post-Doc
Academic Field(s)	Chemistry - General
Job Website	https://aalto.wd3.myworkdayjobs.com/aalto/job/Otaniemi-Espoo-Finland/Postdoctoral-researcher-in-the-field-of-lignocellulose-chemistry_R36359

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 more than 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 lignocellulose chemistry

Are you interested in research and working towards the future of wood based polymer technologies? We are now looking for a motivated co-worker to a team that is passionate about forest resources, biomass, wood polymers, materials and their future perspective.

Your role and goals

The postdoctoral researcher will be working in a project focused on polymeric properties of wood hemicelluloses and lignins. The fundamental questions revolve around solubility and miscibility and their quantification. The ambition is to translate this knowledge into resolving challenges in biomass processing and in materials design. The aim for the postdoctoral researcher is to become an expert of polymers in solution or deepend the existing skills in that area. The position is available immediately, but the starting date can be negotiated to several months ahead.

Your network and team

The position is open in the research group lignocellulosic chemistry headed by Prof. Tiina Nypelö.

The laboratories are situated within the [[url=https://www.aalto.fi/en/department-of-bioproducts-and-biosystems](https://www.aalto.fi/en/department-of-bioproducts-and-biosystems)]Department of Bioproducts and Biosystems. The department of Bioproducts and Biosystems (Bio2), one of the three departments in the School of Chemical Engineering at Aalto University, has an internationally leading reputation in basic and applied research for the development of advanced materials from natural resources. It is one of the leading European research and higher education institutions in the field of sustainable chemistry and engineering based on the utilization of renewable resources. Bio2 aims to contribute to the development of novel solutions to move towards sustainable primary production and processing systems that can produce materials with fewer inputs, less environmental impact and reduced greenhouse gas emissions. Within bioscience, the department has research in bioprocess technology, molecular biotechnology, enzyme technology, metabolic engineering, synthetic biology, biomolecular, and biohybrid materials. Other strengths of the department include sustainable materials and products based on lignocellulose, ranging from nanomaterials to novel cellulose-based textiles.

The project runs within FinnCERES flagship program ([[url=https://www.finnceres.fi/research-themes](https://www.finnceres.fi/research-themes)]<https://www.finnceres.fi/research-themes>).

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Your experience and ambitions

The candidate is expected to have: *

Recently obtained PhD or doctoral degree in chemistry, polymer chemistry or technology, forest products, or similar *

Good written and oral communication skills in English *

Interest in working in the laboratory, carrying out experiments, measurements, and data analysis

It would be an asset if the candidate also has: *

Good understanding of analysis of polymers in solutions using light scattering

What we offer

The postdoctoral researcher position will be filled for two years. The expected starting salary of the postdoctoral researcher is 3576 €/month.

Our facilities are located at Aalto University Otaniemi campus in Espoo, Finland. The employment contract includes occupational health care, 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.

Ready to apply?

If you want to join our community, please submit your application through our online recruitment system no later than 04.06.2023 by using the link on Aalto University's webpage ("Apply now"). If you are an Aalto employee, please apply via Workday system (internal jobs).

To apply, please include the following documents in English and as a single pdf document: *

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

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. You can

also check out our webpage about Aalto and Finland: [url=https://www.aalto.fi/en/services/welcome-to-

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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:
[url=https://virtualtour.aalto.fi/]<https://virtualtour.aalto.fi/>.

For further information about the position, please contact Professor Tiina Nypelö (tiina.nypelo(at)aalto.fi). In recruitment-related questions, please contact HR Partner Noora Katisko (noora.katisko(at)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/for-international-staff]For international staff | Aalto University

Aalto University reserves the right for justified reasons to leave the position open, to extend the application period, and to consider candidates who have not submitted applications during the application period.

More about Aalto University:

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Contact Information

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

Contact

Finland

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