

## Doctoral researcher in the field of lignocellulose chemistry Aalto University

Direct Link: <https://www.AcademicKeys.com/r?job=244183>

Downloaded On: Dec. 4, 2024 4:06am

Posted Sep. 3, 2024, set to expire Jan. 2, 2025

<b>Job Title</b>	Doctoral researcher in the field of lignocellulose chemistry
<b>Department</b>	T107 Bioproducts and Biosystems
<b>Institution</b>	Aalto University , , Finland
<b>Date Posted</b>	Sep. 3, 2024
<b>Application Deadline</b>	Open until filled
<b>Position Start Date</b>	Available immediately
<b>Job Categories</b>	Graduate Student
<b>Academic Field(s)</b>	Chemistry - General
<b>Job Website</b>	<a href="https://aalto.wd3.myworkdayjobs.com/aalto/job/Otaniemi-Espoo-Finland/Doctoral-researcher-in-the-field-of-lignocellulose-chemistry_R40668-4">https://aalto.wd3.myworkdayjobs.com/aalto/job/Otaniemi-Espoo-Finland/Doctoral-researcher-in-the-field-of-lignocellulose-chemistry_R40668-4</a>

### 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.

Circular Materials Bioeconomy Network (CIMANET) is an interdisciplinary doctoral education network to support the renewal of the bio-based industry through new sustainable materials and processes. CIMANET is part of the doctoral education pilot program established by Finland's Ministry of Education

## Doctoral researcher in the field of lignocellulose chemistry Aalto University

Direct Link: <https://www.AcademicKeys.com/r?job=244183>

Downloaded On: Dec. 4, 2024 4:06am

Posted Sep. 3, 2024, set to expire Jan. 2, 2025

and Culture, providing scientific and technological competences to promote sustainable growth. It strengthens the knowledge base required to enhance the Finnish forest and bio-based industry with novel solutions unveiling the full potential of biomass. CIMANET consists of nine universities: Aalto University, Hanken School of Economics, LUT University, Tampere University, University of Helsinki, University of Jyväskylä, University of Oulu, University of Turku, and Åbo Akademi University.

CIMANET operates in close collaboration with the industry, research organizations, as well as other stakeholders to create economic and societal impact by addressing the major challenges of our century: resource sufficiency, access to clean water, and climate change. CIMANET has started in 2024 and will provide altogether 67 doctoral researchers funding for three years. Check out all the open positions at the [[url=https://www.aalto.fi/en/doctoral-education-pilot/cimanet-doctoral-education-pilot](https://www.aalto.fi/en/doctoral-education-pilot/cimanet-doctoral-education-pilot)]CIMANET pilot website.

We are now looking for a

Doctoral researcher in the field of lignocellulose chemistry

Are you interested in research and working towards the future of forest products and lignocellulose chemistry? 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.

Scientific environment

The position is open in [[url=https://www.aalto.fi/en/department-of-bioproducts-and-biosystems/lignocellulose-chemistry](https://www.aalto.fi/en/department-of-bioproducts-and-biosystems/lignocellulose-chemistry)]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

## Doctoral researcher in the field of lignocellulose chemistry Aalto University

Direct Link: <https://www.AcademicKeys.com/r?job=244183>

Downloaded On: Dec. 4, 2024 4:06am

Posted Sep. 3, 2024, set to expire Jan. 2, 2025

department include sustainable materials and products based on lignocellulose, ranging from nanomaterials to novel cellulose-based textiles.

In the first weeks, you will be assigned your own onboarding buddy who will help you get started with your work and studies at Aalto.

### Your role and goals

The doctoral researcher will be working in a project investigating the role of hemicellulose solubility in biomass fractionation. Loss of hemicelluloses in chemical pulping accounts for loss of nearly a fourth of the material resources. Mastering the mechanism of solubilization may help to provide solutions to counteract this loss and make biomass processing more resource-efficient and contribute to the future biorefineries. The aim for the doctoral researcher is to become an expert in biomass fractionation.

### Your experience and ambitions

The candidate is expected to have: \*

A keen interest to work in the lab, learn how to build your own instruments, perform your own experiments, and analyze your results. \*

Excellent student track records

An applicant must have completed a Master's degree in Chemical Engineering, Chemistry, or a related field by 31 December 2024 or preferably earlier (to start employment on 1 January 2025)

Applicants must fulfill the admission criteria of the Aalto Doctoral Programme and, if chosen for a position, apply for, obtain and accept the right to pursue doctoral studies at Aalto University. For more information on the general requirements and the application process for doctoral studies, please visit [[url=https://www.aalto.fi/en/doctoral-education/how-to-apply-for-doctoral-studies.](https://www.aalto.fi/en/doctoral-education/how-to-apply-for-doctoral-studies)]

### What we offer \*

Opportunity to work in a dynamic community of world-class researchers and professionals where students are rigorously selected and highly motivated. This leads to an exceptionally interactive and intellectually challenging atmosphere at Aalto. \*

We have a flexible modern work culture. We value the balance and well-being of work and leisure in all aspects of life. \*

We offer you an interesting job in an inspiring work environment. You will be able to work in a community where we promote socially significant goals in science and education. We will familiarize

## Doctoral researcher in the field of lignocellulose chemistry Aalto University

Direct Link: <https://www.AcademicKeys.com/r?job=244183>

Downloaded On: Dec. 4, 2024 4:06am

Posted Sep. 3, 2024, set to expire Jan. 2, 2025

you with your tasks and you will be part of a nice and competent team that will provide you with support for your work tasks also in the future. We encourage and offer opportunities for continuous development of your own expertise. \*

The expected starting date in the position is 1st January 2025. Presence in Finland for the duration of the contract is compulsory. \*

Employment contracts will be made for three years with the funding from the Finnish Ministry of Education and Culture. Contract includes a prerequisite to apply, receive and accept doctoral study right within the probation period of the first 6 months. \*

The annual workload of research and teaching staff at Aalto University is 1612 hours. \*

Aalto University follows the salary system of Finnish universities. The starting salary is 3000 €/month (gross), and it increases as the Doctoral Researcher progresses in their research and studies. \*

The contract includes Aalto University occupational healthcare. 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. The Otaniemi campus is a thriving and connected community of 100 nationalities. 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 metro and city train lines. See how the campus looks like on our virtual tour: [\[url=https://virtualtour.aalto.fi/\]https://virtualtour.aalto.fi/](https://virtualtour.aalto.fi/)

Join us!

To apply, please submit the following application materials through our aalto.fi recruitment site by 23 September 2024 Finnish time. Click “Apply now”.

Please note: Aalto University’s employees should apply for the position via internal HR system Workday (Internal Jobs) by using their existing Workday user account (not via the external webpage for open positions). Aalto University’s students and visitors should apply as external candidates with personal (not aalto) email.

All material should be submitted in English and in a pdf file. Application material should include:

1. Letter of motivation (max. one page). Please describe your background and future plans, and in particular the reasons for applying for this project.
2. A curriculum vitae and possible list of publications with complete study and employment history, contact details of referees from 2 senior academic people. We will contact your referees, if recommendation letters are required.  
(please see CV example

## Doctoral researcher in the field of lignocellulose chemistry Aalto University

Direct Link: <https://www.AcademicKeys.com/r?job=244183>

Downloaded On: Dec. 4, 2024 4:06am

Posted Sep. 3, 2024, set to expire Jan. 2, 2025

[url=https://view.officeapps.live.com/op/view.aspx?src=&https%3A%2F%2Ftenk.fi%2Fsites%2Fdefault%2F06%2FTENK\_CV\_template\_2020.docx&wdOrigin=&BROWSELINK]TENK\_CV\_template\_2020.docx (live.com) )

3. A study transcript provided by the applicant's university that lists studies completed and grades achieved.
4. A copy of the M.Sc. degree certificate or equivalent (for doctoral study application it will need to be officially translated into Finnish, English or Swedish). If the degree is still pending, then a plan for its completion must be provided.
5. Plan for obtaining certificate of English/Finnish/Swedish language knowledge for doctoral study application if position is offered (in order to have it on time for application, see more from [url=https://www.aalto.fi/en/doctoral-education/how-to-apply-for-doctoral-studies]https://www.aalto.fi/en/doctoral-education/how-to-apply-for-doctoral-studies)

We will go through applications, and we may invite suitable candidates to interview already during the application period. The position will be filled as soon as a suitable candidate is identified. The chosen candidate should apply for doctoral study right immediately after accepting the position.

Any questions?

For additional information, kindly contact Prof. Tiina Nypelö (firstname.lastname(at)aalto.fi).

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

For questions about applying, please contact HR Partner Noora Katisko, who can be reached by e-mail at firstname.lastname(at)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]Aalto University - Towards a better world, [url=https://www.youtube.com/watch?v=&dUfEGVM-ZP8&feature=&youtu.be]Aalto People , and [url=https://www.youtube.com/watch?v=&ZK6pDWm1\_CE]Shaping a Sustainable Future.

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.

Read more about working at Aalto: [url=https://www.aalto.fi/en/careers-at-

## Doctoral researcher in the field of lignocellulose chemistry Aalto University

Direct Link: <https://www.AcademicKeys.com/r?job=244183>

Downloaded On: Dec. 4, 2024 4:06am

Posted Sep. 3, 2024, set to expire Jan. 2, 2025

[aalto\]https://www.aalto.fi/en/careers-at-aalto](https://www.aalto.fi/en/careers-at-aalto)

### 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/living-in-finland](https://www.aalto.fi/en/careers-at-aalto/living-in-finland)]https://www.aalto.fi/en/careers-at-aalto/living-in-finland

### Contact Information

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

### Contact

Finland