

Doctoral Researcher in the Area of Biohybrid Materials Aalto University

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Posted Sep. 5, 2024, set to expire Jan. 5, 2025

Job Title Doctoral Researcher in the Area of Biohybrid Materials
Department T107 Bioproducts and Biosystems
Institution Aalto University
, , Finland

Date Posted Sep. 5, 2024

Application Deadline Open until filled
Position Start Date Available immediately

Job Categories Graduate Student

Academic Field(s) Materials Sciences/Polymer Sciences

Job Website https://aalto.wd3.myworkdayjobs.com/aalto/job/Otaniemi-Espoo-Finland/Doctoral-Researcher-in-the-Area-of-Biohybrid-Materials_R40740

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 Department of Bioproducts and Biosystems at the Aalto University School of Chemical Engineering is presently looking for a

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We are looking to fill a doctoral researcher position in the Biohybrid Materials (Prof. Mauri Kostiaainen) research group. Our laboratory is situated on the campus of Aalto University in Otaniemi within the Department of Bioproducts and Biosystems. Our research is funded through the European Research Council (ERC) and we are part of the Finnish Academy Center of Excellence (CoE) on Life-Inspired Hybrid Materials and Gene, Cell and Nano Therapy Flagship. CoEs and Flagships are the forerunners of Finnish research.

We offer a multidisciplinary research environment at the forefront of biomaterials science, maintained laboratory space and excellent equipment pool. The group's research interests include for example: self-assembly of viral and synthetic nanoparticles, functional DNA origami nanostructures and lignocellulosic nanomaterials. For more information on the research, please see the group web page [[url=http://chemtech.aalto.fi/bihy](http://chemtech.aalto.fi/bihy)]<http://chemtech.aalto.fi/bihy>

Research topics of the position include:

1. Chemical virology - you will develop design strategies and fabrication methods to produce new type of protein cages based on virus capsid, study their assembly, cargo packaging and release. Folded mRNA and DNA structures will be studied as templates and delivery targets.
2. Life-inspired hybrid materials - you will take inspiration from living organisms as adaptable and dynamic soft matter to prepare for example multiresponsive materials, nonequilibrium conditions for emergent functionalities or systems to connect living and non-living structures. Your target is to advance new material concepts such as, adaptation, mechano-responsiveness and memory functions.

Requirements

As a successful applicant, you should be highly motivated in experimental science and have a background and a MSc degree in chemistry, biosciences, physics or a closely related field. Solid skills for example in protein engineering, structural DNA nanotechnology, organic synthesis or polymer chemistry as well as related characterization techniques are an additional advantage.

What we offer

Doctoral studies at Aalto University take approximately four years. The candidate will be granted a one-year contract with the possibility of extension. The starting salary for a doctoral researcher is 3000 EUR/month.

If you are chosen for this position, you will apply for the study right in doctoral studies at Aalto University School of Chemical Engineering. Please check the student information and admission

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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.

How to apply

If you want to join our community, please submit your application in English through our online recruitment system at your earliest convenience and no later than 29.09.2024 using the link on Aalto University's webpage ("Apply now"). If you are an Aalto employee, please apply via Workday system (internal jobs).

Application material should include: *

A letter of motivation (max. one A4) *

CV (including a list of publications) *

Transcript of university studies *

Possible letters of recommendation

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

For more information

Please see [[url=http://chemtech.aalto.fi/bihy](http://chemtech.aalto.fi/bihy)]<http://chemtech.aalto.fi/bihy> for more information about the research groups or contact Professor Mauri Kostianen (mauri.kostiainen@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:

[[url=https://virtualtour.aalto.fi/](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-](https://worldhappiness.report/news/its-a-three-peat-finland-)

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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.

Contact Information

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

Contact

Finland