

Postdoctoral Researchers in the area of Biohybrid  
Materials  
Aalto University

Direct Link: <https://www.AcademicKeys.com/r?job=200286>

Downloaded On: Jan. 29, 2023 4:39am

Posted Nov. 23, 2022, set to expire Mar. 25, 2023

<b>Job Title</b>	Postdoctoral Researchers in the area of Biohybrid Materials
<b>Department</b>	T107 Bioproducts and Biosystems
<b>Institution</b>	Aalto University , , Finland
<b>Date Posted</b>	Nov. 23, 2022
<b>Application Deadline</b>	Open until filled
<b>Position Start Date</b>	Available immediately
<b>Job Categories</b>	Post-Doc
<b>Academic Field(s)</b>	Material/Metallurgy
<b>Job Website</b>	<a href="https://aalto.wd3.myworkdayjobs.com/aalto/job/Otaniemi-Espoo-Finland/Postdoctoral-Researchers-in-the-area-of-Biohybrid-Materials_R34923">https://aalto.wd3.myworkdayjobs.com/aalto/job/Otaniemi-Espoo-Finland/Postdoctoral-Researchers-in-the-area-of-Biohybrid-Materials_R34923</a>

**Apply By Email**

**Job Description**

Aalto University is a community of bold thinkers where science and art meet technology and business. We are committed to identifying and solving grand societal challenges and building an innovative future. Aalto has six schools with nearly 11 000 students and a staff of more than 4000, of which 400 are professors. Our main campus is located in Espoo, 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 looking for

Postdoctoral Researchers in the area of Biohybrid Materials

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We are looking for employees to fill Postdoctoral Positions in the Biohybrid Materials (Prof. Mauri Kostianen) research group. Our laboratory is situated on the main 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 (2022-2029). CoEs are the forerunners of Finnish research.

We offer a multidisciplinary research environment at the forefront of biomaterials science, newly renovated laboratory space and excellent equipment pool. The group's research interests include for example: self-assembly of viral and synthetic nanoparticles, polyelectrolyte complexes, 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 current positions include: \*

Life-inspired hybrid materials - you will take inspiration from living organisms as adaptable and dynamic soft matter to prepare for example autonomous 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, memory functions and algorithmic processes inspired by associative learning. \*

Multicomponent protein cage crystals - you will develop design strategies and fabrication methods to produce functional protein cage co-crystals, including crystals for host-guest chemistry, collectively behaving nanoparticle systems and crystal templated inorganic porous materials.

Your background and expertise

A recently obtained PhD degree (max. 5 years). As a successful applicant, you should be highly motivated in experimental science and have a background in chemistry, biosciences, physics or a closely related field. Solid skills for example in organic synthesis, polymer chemistry, nanoparticle preparation, protein engineering or DNA nanotechnology as well as related characterization techniques are an additional advantage.

What we offer

The salary is determined according to the salary system of Finnish universities. The expected starting salary for a Postdoctoral Researcher is 3560 €/month. The position will be filled for a fixed-term period of 2 years (timeframe and extension negotiable). The contract includes occupational health care, and Finland has a comprehensive social security system. Aalto University provides excellent learning and development opportunities, commuter ticket benefit, and versatile exercise services offered with staff discount by UniSport.

For more information

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

In matters related to the recruitment process, please contact HR Coordinator Tiina Torvinen ([tiina.torvinen\(a\)aalto.fi](mailto:tiina.torvinen@aalto.fi)).

### How to apply

Please submit your application through our online recruitment system latest by 14.12.2022 by using the link on Aalto University's web page ("Apply now!").

Aalto University's employees and visitors please note: you should apply for the position via our internal system Workday -> Internal jobs -> find jobs (not external aalto.fi webpage on open positions) by using your existing Workday user account.

To apply, please include the following documents in English and in PDF format: \*

A letter of motivation (max. one A4) \*

CV (including a list of publications) \*

Transcript of university studies \*

Possible letters of recommendation

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.

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

[[https://www.youtube.com/watch?v=5k\\_og\\_6zUJQ](https://www.youtube.com/watch?v=5k_og_6zUJQ)]Aalto University - Towards a better world,

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

[[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: [[https://www.aalto.fi/en/services/welcome-to-](https://www.aalto.fi/en/services/welcome-to-aalto-university-and-finland-info-package)

[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-](https://www.aalto.fi/en/services/welcome-to-aalto-university-and-finland-info-package)

[and-finland-info-package](https://www.aalto.fi/en/services/welcome-to-aalto-university-and-finland-info-package) and our new virtual campus experience:

[<https://virtualltour.aalto.fi/>] <https://virtualltour.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: [[https://worldhappiness.report/news/its-a-three-peat-finland-keeps-](https://worldhappiness.report/news/its-a-three-peat-finland-keeps-top-spot-as-happiest-country-in-world/)

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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

More about Aalto University:

[url=http://www.aalto.fi]Aalto.fi

[url=http://twitter.com/aaltouniversity]twitter.com/aaltouniversity

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### Contact Information

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

### Contact

Finland