

Research Assistant (Master's Thesis Position) in Metal
Nanoclusters-Based Imaging Agents
Aalto University

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Posted Sep. 20, 2024, set to expire Jan. 20, 2025

Job Title Research Assistant (Master's Thesis Position) in Metal
Nanoclusters-Based Imaging Agents

Department T304 Dept. Applied Physics

Institution Aalto University
, , Finland

Date Posted Sep. 20, 2024

Application Deadline Open until filled

Position Start Date Available immediately

Job Categories Graduate Student

Academic Field(s) Physics - General

Job Website https://aalto.wd3.myworkdayjobs.com/aalto/job/Otaniemi-Espoo-Finland/Research-Assistant--Master-s-Thesis-Position--in-Metal-Nanoclusters-Based-Imaging-Agents_R40913

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.

At the Department of Applied Physics, our pioneering research in physical sciences creates important industrial applications that hold great technological potential. Our research focuses on Materials

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physics, Quantum technology, Soft & living matter, and Advanced energy solutions. Topics extend from fundamental research to important applications. We educate future generations of research and development professionals, data specialists, technology experts, inventors, and scientists for industry and society.

A Research Assistant (Master's thesis position) in noble metal nanoclusters (NCs)-based magnetic materials applicable for biomedical imaging is available at Molecular Materials group, Department of Applied Physics (School of Science) at Aalto University. This position requires a suitable studies background in chemistry, materials science, or nanotechnology.

Our research focuses on synthesis and surface modifications of ultra-small metal nanoclusters (NCs) for advanced biomedicines. In this project, we are developing the novel metal NCs having both optoelectronic and magnetic properties. NCs, synthesized with tailored optical properties, are activated by exposure to specific wavelengths of light. This project offers a unique opportunity for a talented, dedicated, and diligent master's student to work with ultra-small metal NCs together with a mentor having internationally recognized expertise in this field. The master's thesis work contributes to a multi-disciplinary consortia preparation initiative with high ambitions.

Your role and goals

We are looking for a master's student to work with us on NCs synthesis, characterizations, and applications in biomedical imaging.

Your network and team

The Research Assistant will be based in Department of Applied Physics, Aalto University with high-tech facilities in this department along with the facilities in Micronova and OtaNano. OtaNano offers a wide variety of fabrication processes and equipment for micro- and nanostructures. The facilities cover a comprehensive range of equipment, including electron microscopy, and x-ray scattering devices. More information about our group can be found in: [[url=https://www.aalto.fi/en/departments-of-applied-physics/molecular-materials-molmat](https://www.aalto.fi/en/departments-of-applied-physics/molecular-materials-molmat)]Molecular Materials

Your experience and ambitions

We offer a high-tech working environment, with challenging and interesting topics related to chemical synthesis, advanced materials, photochemistry, photophysics, magnetism and microscopy. In return, we would like the student to have: * Suitable studies (experimental) in related fields such as chemistry (most preferable), materials science and nanotechnology * Excellent study record * Good English &

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team working skills.

Finnish language is not required.

What we offer

The employment contract will be fixed term and made for 6 months. Aalto University follows the salary system of Finnish universities. The salary for a master's thesis worker is approximately 2400 € per month (gross). The contract includes Aalto University occupational healthcare.

Join us!

If you would like to be considered for the position, please submit your application in English through our recruitment system by clicking the link "Apply now!" on our webpage.

To apply, please share the following application materials with us: * CV * Motivation letter * Study transcripts * Other supporting material * Contact details of referees (up to 3)

Kindly apply before the deadline - 15.10.2024. We encourage you to apply as soon as possible since we aim to fill this position as soon as a suitable candidate is found. Aalto University reserves the right for justified reasons 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.

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). Aalto University's students and visitors should apply as external candidates with personal (not Aalto) email.

More information

If you wish to hear more about the position, you can reach out to Dr. Sourov Chandra (sourov.chandra@aalto.fi) or Prof. Olli Ikkala (olli.ikkala@aalto.fi) and HR Advisor Hanna Multisilta (hanna.multisilta@aalto.fi) in application process related questions.

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. Read

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more about working at Aalto: [\[url=https://www.aalto.fi/en/careers-at-aalto\]](https://www.aalto.fi/en/careers-at-aalto)Careers at Aalto | Aalto University

Check out our new virtual campus experience: [\[url=https://virtualltour.aalto.fi/\]](https://virtualltour.aalto.fi/)Aalto University - virtual campus tour

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)Living in Finland | Aalto University and [\[url=https://www.aalto.fi/en/careers-at-aalto/for-international-staff\]](https://www.aalto.fi/en/careers-at-aalto/for-international-staff)For international staff | Aalto University

Contact Information

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

Contact

Finland