

## Doctoral Student in Optics and Photonics Aalto University

Direct Link: <https://www.AcademicKeys.com/r?job=189425>

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Posted Jul. 7, 2022, set to expire Nov. 6, 2022

**Job Title** Doctoral Student in Optics and Photonics  
**Department** T304 Dept. Applied Physics  
**Institution** Aalto University  
, , Finland

**Date Posted** Jul. 7, 2022

**Application Deadline** Open until filled  
**Position Start Date** Available immediately

**Job Categories** Graduate Student

**Academic Field(s)** Physics - Atomic/Molecular/Optical/Plasma  
Physics - General

**Job Website** [https://aalto.wd3.myworkdayjobs.com/aalto/job/Otaniemi-Espoo-Finland/Doctoral-Student-in-Optics-and-Photonics\\_R34051](https://aalto.wd3.myworkdayjobs.com/aalto/job/Otaniemi-Espoo-Finland/Doctoral-Student-in-Optics-and-Photonics_R34051)

**Apply By Email**

**Job Description**

The Department of Applied Physics is now looking for a

Doctoral Student in Optics and Photonics

We are looking for an outstanding postgraduate student to join the Optics and Photonics group for theoretical and experimental research on nanophotonics. The research will be focused on the development of surface nanostructures and nanomaterials that can control optical fields with unprecedented efficiency and accuracy, allowing one to increase the multifunctionality and simultaneously significantly decrease the dimensions of optical components and devices. Potential applications of the nanostructures to be developed range from novel optical sources and detectors to advanced imaging systems and on-chip optical processors. The appointment is for 4 years with a

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flexible start in autumn 2022. The research is funded by the Academy of Finland and involves collaboration with researchers from University of Eastern Finland and Tampere University, as well as several international research teams from Germany and USA.

### Your role and goals

In this position, you will act as a researcher working on design, fabrication and testing of plasmonic-photonic nanostructures. The design will be based on numerical calculation methods, such as Finite Element Method (FEM) and Finite Difference Time Domain (FDTD) method. The samples will be fabricated using the clean room facilities of Aalto University and tested using the equipment of the Optics and Photonics group. We expect you to be able to generate good scientific ideas, propose new technological solutions, initiate and maintain scientific collaboration, write scientific articles and research proposals, and participate in teaching. We expect you to graduate as a Doctor of Science in four years.

### Your experience

We expect the candidate to hold a MSc degree in physics and be familiar with standard numerical calculation techniques used in physics. Preference will be given to candidates with good understanding of basic optics and photonics and experience in designing and conducting optical experiments.

### What we offer

Aalto University follows the salary system of Finnish universities. The starting salary of a Ph.D. student is approximately 2500 €/month (gross), and it increases as you progress in your research and studies. Following the standard practice in the Department of Applied Physics, the contract will be made initially for two years, then extended to another two years after a successful mid-term progress review. The total duration of Ph.D. studies is four years. The annual workload of research and teaching staff at Aalto University is currently 1612 hours. The contract includes Aalto University occupational healthcare. The primary workplace will be the Otaniemi Campus at Aalto University.

### Ready to apply?

If you want to join our community, please submit your application through our recruitment system by 15.9.2022. To apply for the position, please submit your application including the attachments mentioned below as one single PDF document in English through the link 'Apply now' link at the bottom of the web page.

- Letter of motivation
- CV
- Degree certificates and academic transcripts
- Contact details of at least two referees

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If you are already working at Aalto University, please apply via our internal Workday system (Internal Jobs).

The position will be filled as soon as a suitable candidate is identified. For additional information, kindly contact Dr. Andriy Shevchenko ([\[url=mailto:andriy.shevchenko@aalto.fi\]](mailto:andriy.shevchenko@aalto.fi)andriy.shevchenko@aalto.fi). Aalto University reserves the right for justified reasons to leave the position open, to extend the application period, reopen the application process, 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:

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

[\[url=https://www.youtube.com/watch?v=dUfEGVM-ZP8\]](https://www.youtube.com/watch?v=dUfEGVM-ZP8)Aalto People , and

[\[url=https://www.youtube.com/watch?v=ZK6pDWm1\\_CE&t=2s\]](https://www.youtube.com/watch?v=ZK6pDWm1_CE&t=2s)Shaping a Sustainable Future.

And this webpage about Aalto and Finland.

[\[url=https://www.aalto.fi/en/node/143401\]](https://www.aalto.fi/en/node/143401)<https://www.aalto.fi/en/services/welcome-to-aalto-university-and-finland-info-package>

Check out our new virtual campus experience: [\[url=https://virtualltour.aalto.fi/\]](https://virtualltour.aalto.fi/)<https://virtualltour.aalto.fi/>

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