

PhD Student in the field of Organic Electronics  
Aalto University School of Electrical Engineering

Direct Link: <https://www.AcademicKeys.com/r?job=148012>

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Posted Oct. 23, 2020, expired Feb. 22, 2021

<b>Job Title</b>	PhD Student in the field of Organic Electronics
<b>Department</b>	Department of Electronics and Nanoengineering <a href="https://www.aalto.fi/en/departement-of-electronics-and-nanoengineering">https://www.aalto.fi/en/departement-of-electronics-and-nanoengineering</a>
<b>Institution</b>	Aalto University School of Electrical Engineering Helsinki, , Finland
<b>Date Posted</b>	Oct. 23, 2020
<b>Application Deadline</b>	Nov. 30, 2020
<b>Position Start Date</b>	Beginning of 2021, negotiable
<b>Job Categories</b>	Graduate Student
<b>Academic Field(s)</b>	Physics - Elementary Particles/Nuclear Physics - Condensed Matter/Low Temperature Physics - Atomic/Molecular/Optical/Plasma Physics - General Nanotechnology Natural Sciences Environmental Sciences/Ecology/Forestry Chemistry - Physical Chemistry - Organic Chemistry - Medicinal Chemistry - Inorganic Chemistry - Biochemistry Chemistry - Analytical Chemistry - General Biomedical Sciences Biology - Reproductive Biology - Neuroscience/Neurobiology Biology - Molecular

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Biology - Microbiology

Biology - Computational

Biology - Cell Biology

Biology - Biostatistics

Biology - Biochemistry

Biology - Genetics

Biology - Developmental/Evolutionary

Biology - General

**Job Website** <https://www.aalto.fi/en/open-positions/phd-student-in-organic-electronics>

**Apply Online Here** <https://www.aalto.fi/en/open-positions/phd-student-in-organic-electronics>

**Apply By Email**

**Job Description**

Are you looking for a doctoral candidate position in the field of next-generation electronics? The Department of Electronics and Nanoengineering is looking for a talented and highly motivated

PhD Student in the field of Organic Electronics

The research group in Organic Electronics develops materials and organic devices with the scope of developing next-generation electronics. In particular, by using organic molecules, we can develop a novel class of both materials and devices capable of addressing current and future challenges in low-cost and flexible electronics. The group is led by Assistant Professor Caterina Soldano, more information is available at <https://organicelectronics.aalto.fi/>.

**Job description**

In this position, you have the opportunity to conduct experimental research in both materials and device physics. The work is expected to result in high impact scientific publications and communications at national/international conferences. The main research work will be carried out in the field of organic transistors and light emitting devices, with a particular interest for the general

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understanding of the device properties as well as the overall development and improvement of the performances. In particular, organic light emitting devices (transistors) are a rather yet largely unexplored technology platform, holding tremendous potentials both in terms of fundamental studies as well as technological applications. Large efforts are expected to be devoted to study physical phenomena as charge/field-effect transport and light emission/sensing, with a particular interest for new materials and material's interface. The PhD training will include study of materials properties, device fabrication and electro-optical characterization, using state-of-the-art facility available in the Organic Electronics Lab and Aalto University's cleanroom facilities in the Micronova research center (<https://www.aalto.fi/en/otanano/micronova>).

### Requirements

You have a Master's degree (or equivalent) in Physics, Materials Science, Chemistry or a closely related field. You are highly motivated in experimental science and earlier scientific activity, such as publications in peer-reviewed journals, and experimental activity in fields such as device fabrication and/or is required.

You have:

- MSc degree in Physics, Material Science, Chemistry (or a closely related field)
- Good written and oral communication skills in English
- Experience in carrying out independent project-based work and working in a highly collaborative environment
- Experience in materials characterization and/or device fabrication.

In this position you will apply for the study right for doctoral studies at Aalto University. Thus, please check the student information and application criteria (<https://into.aalto.fi/display/endocoralelec/For+prospective+students>). In particular, please pay attention to the mandatory skill level in English.

### Salary and contract

The starting salary for a doctoral candidate is approximately 2500 €/month and salary will increase with responsibilities and performance over time. Our target is that you will acquire the doctoral degree in four years. The contract includes occupational health benefits and Finland has a comprehensive social security system. The starting salary is approximately 2500 €/month, depending on experience and qualifications. The selected PhD student is expected to complete doctoral research and studies within four years in the Doctoral Programme in Electrical Engineering of Aalto University. As an employer, Aalto University provides excellent learning and development opportunities as well as occupational health care services, commuter ticket benefit and versatile exercise services by Unisport. Finland has a comprehensive social security system. The preferred starting time is flexible but no later than Spring 2021.

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?For more Information

If you wish to hear more about the position, please contact Assistant Professor Caterina Soldano, [firstname.lastname@aalto.fi](mailto:firstname.lastname@aalto.fi).

How to apply

Please submit your application through our recruiting system (<https://www.aalto.fi/en/open-positions/phd-student-in-organic-electronics>) and include the following documents in English

- a motivation letter stating your personal career goals and how conducting a PhD is aligned with them
- a complete curriculum vitae describing education and employment history
- a letter or recommendation of a supervisor of MSc work or current employer
- course transcripts and the certificate of the previous degree accomplished

The call is open until 30.11.2020, but we will start reviewing and interviewing candidates immediately. Applications will be considered until the position is filled.

### **EEO/AA Policy**

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 the Helsinki metropolitan area, Finland. Diversity is part of who we are, and we actively work to ensure our community's diversity and inclusiveness in the future as well. This is why we warmly encourage qualified candidates from all backgrounds to join our community.

### **Contact Information**

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

**Contact**      Professor Caterina Soldano  
Department of Electronics and Nanoengineering  
Aalto University School of Electrical Engineering  
Tietotie 3, Espoo, Finland  
Helsinki

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