

Doctoral Researcher in Trustworthy Machine Learning Aalto University

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Posted Oct. 6, 2025, set to expire Feb. 5, 2026

Job Title Doctoral Researcher in Trustworthy Machine Learning
Department T313 Dept. Computer Science
Institution Aalto University
, , Finland

Date Posted Oct. 6, 2025

Application Deadline Open until filled
Position Start Date Available immediately

Job Categories Graduate Student

Academic Field(s) Computer Science

Job Website https://aalto.wd3.myworkdayjobs.com/aalto/job/Otaniemi-Espoo-Finland/Doctoral-Researcher-in-Trustworthy-Machine-Learning_R44442

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 14 000 students and a staff of 5000, of which more than 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 Computer Science is an internationally-oriented community and home to world-class research in modern computer science, combining research on foundations and innovative applications. With over 40 professors and more than 450 employees from 50 countries, it is the largest department at Aalto University and the leading computer science research unit in northern Europe. Computer science research at Aalto University ranks high in several international surveys (7th in

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Europe and 1st in the Nordics (NTU 2023); and 88th worldwide in Times Higher Education subject ranking 2025).

We are now looking for a Doctoral Researcher in Trustworthy Machine Learning

Your role and goals

Trustworthy & Adversarial Computing Lab ([url=https://taclab.aalto.fi]https://taclab.aalto.fi) led by Sebastian Szyller is looking for a doctoral researcher (PhD student) to pursue a degree in trustworthy machine learning (TML). TML is a cross-disciplinary field that combines machine learning, security/privacy and transparency.

As a doctoral researcher your goal is to conduct research in the fast-paced field of TML. You are expected to:

- 1) Carry out state-of-the-art research.
- 2) Prepare and publish manuscripts at leading conferences and journals.
- 3) Present your work at academic and industry events.
- 4) Collaborate with other researchers (locally and internationally).

You will pursue one or many of the following research directions:

- 1) Verifiable, provable and auditable machine learning (e.g. adversarial robustness, privacy, fairness).
- 2) Provenance and integrity of machine learning pipelines.
- 3) Generative content authenticity.
- 4) Cyber-physical machine learning systems.
- 5) Scalability of properties from small to large models.

In addition to research work, persons hired are expected to participate in teaching following the standard practices at the department.

Your experience and ambitions

The position requires excellent programming skills in Python with demonstrable familiarity with PyTorch, experience in working on shared codebases, excellent applied math skills (especially probability theory, matrix algebra, calculus). Beyond technical experience, candidates are expected to have strong teamwork and collaboration skills, as well as competency in critical and independent thinking.

You're a good fit if:

- 1) you have experience in machine learning and would like to explore the security/privacy angle, or
- 2) you have a security/privacy background and would like to apply it to machine learning, or

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3) you have experience in explainable/interpretable/fair machine learning.

Outstanding applicants have prior experience in trustworthy machine learning and/or publication record in machine learning or security/privacy.

What we offer

We offer a fully funded position (2 + 2 model) under the supervision of Sebastian Szyller. Trustworthy & Adversarial Computing Lab is a newly established group. The lab has an extensive network consisting of companies and academic institutions in Europe and across the world.

The expected start date is January 2026.

The position belongs to the Aalto career system and the selected person will be appointed for a two-year fixed term appointment with an option for two-year renewal.

The starting salary for the position is 2 815,75 EUR per month. In addition to the salary, the contract includes occupational health benefits, and Finland has a comprehensive social security system. The annual total workload of research and teaching staff at Aalto University is 1 612 hours. The position is located at the Aalto University Otaniemi campus.

Ready to apply?

If you want to join our community, please submit your application through our recruitment system Workday. The deadline for applications is 14.11.2025. The position will be filled as soon as suitable candidate has been identified.

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

To apply, please share the following application materials in one pdf file with us: * CV * Short bio * Draft research plan * Transcript of records and a pdf or link to your MSc thesis * Recommendation letter(s) or contact details for such * At later stage, you will need to provide your Bachelor's and Master's diplomas (if not from Aalto)

The candidates must have completed their Master's degree before the start of the contract period. 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.

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Further information * Professor Sebastian Szyller, e-mail seb.szyller@aalto.fi; (research related information) * HR Advisor Susanna Holma, e-mail hr-cs@aalto.fi; (recruitment process)

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]Aalto University - Towards a better world, [url=<https://www.youtube.com/watch?v=dUfEGVM-ZP8&feature=youtu.be>]Aalto People , and [url=https://www.youtube.com/watch?v=ZK6pDWm1_CE]Shaping a Sustainable Future.

And this webpage about Aalto and Finland: [url=<https://www.aalto.fi/en/careers-at-aalto/why-finland>]Why Finland? | Aalto University

Check out our new virtual campus experience: [url=<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: [url=<https://www.worldhappiness.report/news/world-happiness-report-2025-people-are-much-kinder-than-we-expect-research-shows/>]World Happiness Report 2025: People are much kinder than we expect, research shows | The World Happiness Report.

More about Aalto University:

Aalto.fi

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Contact Information

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

Contact

Finland