

# POSTDOCTORAL RESEARCHER IN EDGE / FOG COMPUTING FOR THE INTERNET OF THINGS

We are looking for a postdoctoral researcher within a research project on Edge / Fog Computing for the Internet of Things (IoT) funded by the Academy of Finland, the leading Finnish funding agency. The project aims to devise novel mathematical and software tools to optimize the performance of large-scale IoT applications over heterogeneous devices, with a focus on reliable and low-latency operations. The project is a collaboration between Aalto University, the University of Oulu, VTT Technical Research Center of Finland, and several research groups worldwide. Thus, it provides an excellent chance for internationalization, thereby enabling wide opportunities for career development in both industry and academia.

A successful candidate will be employed by Aalto University and will work at the Department of Computer Science. The position is initially filled for 2 years, with a possibility for extension.

## ABOUT US

Research carried out in [Mario Di Francesco](#)'s group (project leader) on mobile computing, wireless networking and the IoT has received several recognitions, including best paper awards at UBICOMP 2014, the IoT conference 2015 and IEEE/IFIP NOMS 2018.

The [Department of Computer Science](#) is home to world-class research in modern computer science, combining fundamental research and innovative applications. With 42 professors and more than 400 employees, it is the largest department at Aalto University and the largest computer science unit in Finland. Computer science research at Aalto University [ranks 7<sup>th</sup> in Europe and 43<sup>rd</sup> worldwide](#) (according to the U.S. News Best Global Universities 2019 survey).

## QUALIFICATIONS

- > PhD in Computer Science, Communications Engineering, Applied Mathematics, or similar disciplines
- > Solid background in analytical modeling, performance evaluation and optimization, and computer networks
- > Proficiency in programming and scientific computing
- > Outstanding research record, especially in terms of publication quality and impact
- > Excellent communication / teamwork skills and ability to work independently
- > Experience with deploying cloud / edge / fog systems as a definite plus

## MAIN RESPONSIBILITIES

- > Conduct high-quality research, resulting in top-tier conference and journal publications
- > Advise graduate students working in the research group
- > Contribute to teaching related to the research project, based on personal interests
- > Other tasks relevant to successful carrying out of the research

## HOW TO APPLY

Interested applicants are required to submit the following material:

- > CV including list of publications and bibliometrics
- > A motivation letter with a brief description of research interests (up to 2 pages)
- > A transcript of records for the doctoral studies and the related degree certificate
- > Contact information of at least two referees

All material must be in English and in PDF format. Applications must be submitted through the [eRecruitment system of Aalto University](#). Shortlisted candidates will be interviewed via tele-conference or on site, whenever possible. The position will start on May 1<sup>st</sup> 2020 at the earliest. Prospective applicants are strongly encouraged to apply by January 27<sup>th</sup>, 2020. The salary of the postdoctoral researcher is competitive and varies based on experience and qualifications, according to the salary system for research personnel at Aalto University. The contract also includes occupational health benefits.

## FURTHER INFORMATION

- > Research-related queries: Mario Di Francesco ([mario.di.francesco@aalto.fi](mailto:mario.di.francesco@aalto.fi))
- > Application process and practicalities: Tiina Torvinen ([tiina.torvinen@aalto.fi](mailto:tiina.torvinen@aalto.fi))

## ABOUT AALTO

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 University has six schools with nearly 11 000 students and nearly 400 professors. Our main campus is located in Espoo, within the Helsinki metropolitan area, Finland. Aalto University [ranks 7<sup>th</sup> among the best universities in the world established less than 50 years ago](#) (according to the QS – Top 50 Under 50 2019 ranking).

## ABOUT FINLAND

Finland tops [international rankings](#) in education, equality, safety and quality of life. [Finland](#) is one of the most technologically advanced countries in the world; design, creativity and [startup culture](#) are also very important. Extensive social security supports people in all situations in life, and free high-quality education system is acknowledged worldwide.

## LIVING UP TO OUR VALUES

As a community of high ethics, we want to assure the highest international standard in research, education and teaching. We expect all our community members to respect Aalto values and follow the ethical principles of fair play and integrity in all our activities and the behavior that we expect from each other.

**APPLY** > <https://www.hiit.fi/calls/postdoc-and-research-fellow-positions-winter-2019-2020>