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## Researcher in Perception and Control of Cyber-Physical Systems

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**Posted date:** Apr 23, 2021

**Location:** Stockholm, AB, SE

**Company:** Ericsson

As the tech firm that created the mobile world, and with more than 54,000 patents to our name, we've made it our business to make a mark. When joining our team at Ericsson you are empowered to learn, lead and perform at your best, shaping the future of technology. This is a place where you're welcomed as your own perfectly unique self, and celebrated for the skills, talent, and perspective you bring to the team. Are you in?

Come, and be where it begins.

### Our Exciting Opportunity

The IoT and Cyber-Physical Systems Technologies team at Ericsson Research is looking for a researcher in perception and control of Cyber-Physical Systems.

Networked robotic systems are expected to initiate an unprecedented revolution in industrial automation. These intelligent machines incorporating insights from rich, perceptual sensing modalities such as cameras and Lidar sensors should be able to execute a wide range of tasks efficiently, with extreme performance and high levels of safety. This however remains a major challenge as current robotic systems lack the capabilities to share and build knowledge incrementally as well as plan and control their actions based on the rich sensor information collected. This is primarily due to the lack of suitable algorithms but also because these systems are not tightly integrated with the 5G network platform and the device hardware and software. The combination of our team's experience and the experience Ericsson has dealing with sophisticated industry infrastructure for mobile networks put us in a unique position to contribute in this emerging field!

### **You will**

- Have the opportunity to impact the development of Cyber-Physical Systems (CPS) technologies
- Develop new solutions to relevant problems in the above-mentioned areas, involving theoretical contributions as well as coding
- Evaluate and demonstrate the proposed systems using real sensor data and run them on real CPS devices such as robots
- Become part of a highly motivated, multi-disciplinary team of researchers working in a fully collaborative manner
- Have the opportunity to publish results in patent applications and leading technical journals and conferences
- Be working in a dynamic department with opportunities for learning, taking on new responsibilities, impacting ways of working, and much more

### **To be successful in the role you must have**

- MSc. or PhD in a relevant technical area, including robotics, electrical engineering and computer science
- Experience and/or demonstrated interest in sensor fusion, computer vision, scene understanding, automatic control, modelling and optimization
- Demonstrated experience and interest in implementation of solutions in software and hardware
- Strong mathematical background
- Solid programming skills, including C++ and Python
- Demonstrated experience and interest in publishing results in form of papers at high-quality conferences/journals and publishing code
- Demonstrated experience and interest in supervising students (e.g. thesis projects and internships)
- Strong communication skills in written and spoken English and good presentation skills

We are looking forward to your application where you indicate the value of your experience and skills to the above technical area.

### **What's in it for you?**

Here at Ericsson, our culture is built on over a century of courageous decisions. With us, you will no longer be dreaming of what the future holds – you will be redefining it. You won't develop for the status quo, but will build what replaces it. Joining us is a way to move your career in any direction you want; with hundreds of career opportunities in locations all over the world, in a place where co-creation and collaboration are embedded into the walls. You will find yourself in a speak-up environment where empathy and humanness serve as cornerstones for how we work, and where work-life balance is a priority. Welcome to an inclusive, global company where your opportunity to make an impact is endless!

## What happens once you apply?

To prepare yourself for next steps, please explore here: <https://www.ericsson.com/en/careers/job-opportunities/hiring-process>

Location for this role: Kista

Hiring Manager: Head of IoT Technology & Cyber-Physical Systems

Recruiter: Sylwia Kwiecien [Sylwia.Kwiecien@ericsson.com](mailto:Sylwia.Kwiecien@ericsson.com)

Last day to apply: 21.05.2021

Kindly note that we cannot process applications sent via email.

Do you believe that an organization fostering an environment of cooperation and collaboration to execute with speed creates better business value? Do you value a culture of humanness, where fact based decisions are important and our people are encouraged to speak up? Do you believe that diverse, inclusive teams drive performance and innovation? At Ericsson, we do.

We provide equal employment opportunities without regard to race, color, gender, sexual orientation, transgender status, gender identity and/or expression, marital status, pregnancy, parental status, religion, political opinion, nationality, ethnic background, social origin, social status, indigenous status, disability, age, union membership or employee representation and any other characteristic protected by local law or [Ericsson's Code of Business Ethics](#).

Primary country and city: Sweden (SE) || || Stockholm || R&D; Stud&YP

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