

# WEB3 RESEARCHER

Software Systems Research Department  
 Software and Data System Research Lab  
 New Jersey (USA)  
 Nokia Bell Labs

Web3, Blockchain, Decentralized Systems, Cryptonetworks

## SOFTWARE AND DATA SYSTEM RESEARCH LAB

We are the Software and Data Systems Research (SDSR) Lab at Nokia Bell Labs, a global team creating the world's most innovative, safe software and data solutions that enable you to live, explore, and interact without limits.

Our inventions are fueling the innovation pipeline for Nokia's business units, internal incubation, and spin-out value creation channels. We are constantly challenging the status quo. We are relentlessly pushing boundaries. We admire skills and talent to create. We love crazy ideas and passion to build things that matter. We celebrate these qualities in our colleagues, and we look forward to adding your unique abilities to our team. Come join our crew!

## SOFTWARE SYSTEMS RESEARCH DEPARTMENT

We are looking for passionate, dynamic, and visionary researchers for our **Software Systems Research Department**, which is responsible for driving fundamental research on all aspects of the design, implementation, evaluation, and verification of emerging software systems. The team takes an experimental approach in building real systems to investigate new research ideas. It investigates software-based platforms at all scales, from handheld devices to cloud computing data centers. Areas of special focus include decentralized and distributed systems, cloud platforms, Web technologies, AI/ML systems, privacy, software engineering and—increasingly—Web3/cryptonetworks technologies. The department has members in Murray Hill (NJ, USA).

This position offers unique opportunities for stimulating and rewarding professional development—you will tackle a broad range of important real-world challenges; interact with global teams, including customers, Nokia business groups, universities, governments; nurture research projects, moving them from seminal ideas through solution development and evaluation to commercialization and deployment; see people benefit from your team's research. And, the position comes with a wealth of research freedom. We offer an inspiring and supportive environment hard to find elsewhere.

## MAIN DUTIES & RESPONSIBILITIES

- Carry out ground-breaking research in the areas of emerging software technologies (Web3, decentralized systems, cryptonetworks, blockchain, privacy-preserving systems) for creating both theoretical innovations and novel practical implementations.
- Propose new innovations, implement, validate, and accelerate their adoption through Nokia business groups, incubation, or external spin-offs.
- Publish research through the major research conferences and journals worldwide.
- Keep an active and visible role in the research community through conference committees and reviewing panels.
- Create and maintain strong collaborative associations with university-based researchers.

## DESIRED QUALIFICATIONS

- Ph.D. (or equivalent experience) in computer science, data science, electrical engineering, software engineering, computer engineering or related disciplines.
- Deep understanding of distributed systems and Web technologies.
- Good understanding of large-scale software systems, data analysis and AI/ML systems, and hands on experience with modern software development frameworks.
- An interest in cryptonetworks and Web3 technologies.
- Experience with open source.
- Strong research credentials and proven track record of disruptive innovation, with publications in prestigious journals and conferences in relevant fields.

More details can be found here: <http://web3.mhof.com/>

For informal discussions, please contact Markus Hofmann (<https://mhof.com/>).