

NEC Laboratories Europe is the European research center of the NEC Group, a world leader in the computer and communications markets with a large world-wide base of R&D Laboratories. Top researchers from more than 20 countries develop, pilot and bring to reality technologies through open innovation.

NEC Laboratories Europe has an immediate opening for a

Research Scientist or Senior Researcher for AI-based Situation Classification and Analysis in IoT [ref:1810-308-IOT]

NEC Laboratories Europe's IoT group is looking for research scientists to utilize AI-techniques and to develop algorithms for a superior situation modelling and related analytics in Smart City and Smart Industry scenarios for human behavior and crowd mobility. Part of this research will extend the current 'Digital Twin' mainly state capturing model to be able to represent a more complex (deep) real world situation and its relationships in dynamics, scale and heterogeneity. Therefore the ability to represent, classify and differentiate actual situations will enable us to suggest recommendations to authorities and/or influence assistance systems to optimize situation evolution (Urban Reasoning).

Our work ranges from foundational research and IPR creation to prototype development for transfer to NEC products and services. We are embedded in international research collaborations ranging from collaborative research over large scale pilots for IoT to establishing our technologies in standards.

Our working language is English. The position is initially limited to two years.

Desired Skills and Experience:

- Strong publication record (ACM, IEEE Journals, IoT, BigData, Software Engineering) Broad knowledge of IoT architecture and protocols
- Deep understanding of Situation Classification and related information modelling and analysis
- Understanding AI and other techniques to generate context from IoT / other data sources
- Knowledge about or practical experience with large scale IoT system is a plus
- Realized systems ranging from early experiments to (at least) working system-level prototype
- Programming proficiency in Java, Python, Go
- Familiarity with software development in Clouds (OpenStack, Hadoop, SPARK, AWS) and under UNIX-based system (Linux, FreeBSD etc.)

We expect a Ph.D. in Computer Science/AI or related fields (or M.Sc. plus equivalent experience).

Please send your application by **30 November, 2018** electronically via the applications web system <http://www.neclab.eu/jobs/> with reference to **[1810-308-IOT]**.

For questions, please contact:

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