

NEC Europe Ltd. is a subsidiary of NEC Corporation, a world leader in the computer and communications market with a large base of R&D Laboratories in Japan, China, USA, and Europe.

NEC Laboratories Europe has an immediate opening for an

# Internship on “Network-aware application management and data distribution in Cloud-to-Edge IoT platforms”

[ref:2017-03-62-CSST]

NEC Laboratories Europe (NLE) has been participating in several research projects on the enhancement of Internet-of-Things (IoT) platforms. IoT platforms are solutions that support the execution of IoT applications by automating and optimizing typical functionalities such as task deployment, system configuration, data distribution, and more. NLE is looking for student of Computer Eng., Informatics, or related disciplines, to carry out an internship at our premises in Heidelberg, Germany. The focus will be on designing and developing solutions for connecting the IoT platform to lower-layer (i.e., network-layer) controllers and optimizing the data distribution management.

The internship includes the following work items (the focus will be based on the intern's skills & preferences):

- Design and develop a solution for orchestrating the control actions of the IoT platform with the control actions of network controllers.
- Investigate how data distribution management can be enhanced based on the tighter integration with the network-layer controllers.

NEC Laboratories in Heidelberg (Germany) provides an excellent working environment supporting individual creativity as well as strong teamwork. English is the working language in the Laboratories.

Please send your application via the following webpage: <http://www.neclab.eu/jobs> with reference to [2017-03-62-CSST].

## Required Skills:

- Software design and development skills are required, preferably including some experience with Java and data interchange formats.
- Knowledge about telecommunication networks and networking technologies is a plus.
- Algorithm design skills and knowledge in areas such as optimization problems, graph theory, and computational complexity are a plus.
- Team working spirit and good communication skills in English.

## Benefits:

- Exposure to telecommunication network and IoT technologies
- Excellent opportunities to obtain experience in an industrial working environment
- Opportunity to publish papers in international conferences
- Students receive common indemnification

## Preferred starting date:

Any time starting from July 2017

## For questions, please contact:

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