

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 or Master Thesis on Reinforcement Learning

[ref: 2017-05-63-IPC]

NEC Laboratories Europe (NLE) is working on machine learning algorithms for control and optimization of innovative industrial control applications.

NLE is looking for a student to carry out an internship in the field of data science, located at our premises in Heidelberg, Germany. Reinforcement learning methods offer interesting concepts to tackle data-driven decision making and control of complex systems. The internship will provide the opportunity to work in the exciting field of reinforcement learning.

The internship includes the following work items:

- Literature research on Reinforcement learning State-of-the-Art
- Derivation and implementation existing RL approaches to a set of control scenarios
- Validation in simulation environments
- Development of prototype
- Demonstration of industrial application

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.

## Required Skills:

- Student in natural sciences, e.g. Machine Learning, Computer Science, Math, Physics
- Strong knowledge of and practical experience in Machine Learning; Deep Learning/ Reinforcement Learning is a plus
- (Very) good grades
- Strong knowledge of Python, R or Matlab
- Independence and strong intrinsic motivation
- Strong English language skills

## Benefits:

- Early exposure to the field data science for control and optimization
- 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 June 2017

**Duration:** 6-8 months

Please send your application via the following webpage: <http://www.neclab.eu/jobs> with reference to **[2017-05-63-IPC]**.

## For questions, please contact:

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