

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 / Master Thesis on

“Automated Learning Systems from Transportation Data”

[ref: 2016-10-59-ITS]

NEC Laboratories Europe (NLE) has been participating in several research projects on Intelligent Transportation Systems. We are applying Big Data Analytics to various real-world transportation problems including mobility patterns analysis, trajectory mining, incident prediction and anomaly detection, among others. Challenges include the development of Machine Learning (ML) solutions to perform supervised and unsupervised learning from rich sources of geospatial data.

NLE is looking for students carrying out an internship at our premises in Heidelberg, Germany. The focus will be on developing specific computational frameworks and/or algorithms for data analytics tailored to the field of transportation.

The internship includes the following work items:

- Understand the project's goals and the current state-of-the-art on its topics;
- Improve the awareness on the fundamentals of one or multiple ML problems;
- Preprocess very large datasets of heterogeneous data;
- Validate models and algorithms using real-world data;
- Develop prototypes;

Required Skills:

- University courses or projects on Knowledge Discovery/Data mining and Statistics;
- Hands-on experience with OOP languages (e.g. C/C++, Java);
- Familiarity with Machine Learning methods and with one scripting language (R or Python) is a plus;
- Team working spirit and good communication skills in English;

Benefits:

- Early exposure to the fields of Big Data Analytics and Intelligent Transportation Systems;
- Excellent opportunities to obtain experience in an industrial working environment ;
- Opportunity to publish papers on top-notch international conferences and journals
- Students receive common indemnification
- An excellent working environment supporting individual creativity as well as strong teamwork. English is the working language.

Preferred starting date:

Any time starting from September 2017

Duration: 6 months

Please send your application via the following webpage: <http://www.neclab.eu/jobs/> with reference to **[2016-10-59-ITS]**.

For questions, please contact:

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<http://www.neclab.eu/jobs.htm>