\Orchestrating a brighter world **NEC**

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 in Japan, China, USA, and Europe.

NEC Laboratories Europe GmbH has an immediate opening for an

# Internship on Data Science for Biomedical Research

## [ref:2018-06-72-SML]

NEC Laboratories Europe (NLE) is participating in several biomedical research projects. In particular, our data science group combines multiple modalities of data, including high-throughput 'omics data, imaging, demographics, traditional genetic screens, and medical history, to make biologically-interesting and clinically-relevant predictions. These predictions lead to deeper biological understanding, more informed wet lab experimental design, and, ultimately, improved patient outcomes. NLE is looking for a student to carry out an internship at our premises in Heidelberg, Germany. The focus will be on applying and extending our state-of-the-art machine learning algorithms on high-throughput sequencing data, as well as other data modalities.

The internship includes the following work items:
- Extending existing algorithms to handle new types of data, such as next generation sequencing (NGS) data
- Evaluating algorithms on real-world biomedical and clinical datasets
- Developing interpretable machine learning algorithms for biomedical research

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

Please send your application via the following webpage: http://www.neclab.eu/jobs with reference to **[2018-06-72-SML].**

Required Skills:
- Experience in bioinformatics (the biomedical domain). Experience with NGS data, especially RNA-seq, is a plus.
- Hands-on experience with Python or R
- Familiarity with machine learning frameworks, such as scikit-learn, and/or distributed computing frameworks, such as Dask or Spark, is a plus.
- Good English communication skills

Benefits:
- Early exposure to modern data science approaches to biomedical problems
- Excellent opportunities to obtain experience in an industrial research environment
- Opportunity to publish papers in international conferences and journals
- Competitive compensation

Preferred starting date:
August 2018 (flexible)

Duration:
6 months

**For questions, please contact:**
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http://www.neclab.eu/jobs