1 Research Grant – Post-doc (BI-D)

We are seeking one postdoc candidate in the context of a Horizon 2020 European Project, ***SOUND - Statistical multi-Omics UNDerstanding of Patient Samples***, (European Union – No. 633974).

Scientific Area: Machine Learning and Biostatistics

Required education Level and research experience: PhD in one of the following areas: machine learning, statistics, computational biology or related, with a taste for inter-disciplinary research, and with very good interpersonal skills. Ideally, the person will have a long experience with machine learning and biostatistics applications to clinical data and be proficient in computer programming (R, Matlab or related).

Workplan: SOUND is an international research project funded by the European Commission (EC) within its Horizon 2020 Research and Innovation programme "Personalizing Health and Care". Its objective is to create the bioinformatic tools for statistically informed use of personal genomic and other omics data in medicine, including cancers and rare metabolic diseases. It comprises partners from top research institutions including Cambridge, Munich, Zurich, Seattle, Heidelberg and Lisbon, and will run from September 2015 for 3 years.

IDMEC (Lisbon, Portugal) is looking for a post-doc candidate to work in the development of statistical and machine learning methods and their application to clinical data, in particular cross-cutting methods for oncology and genetics. The position is set at the cutting edge of scientific research related to mechanisms of disease, personalized medicine, genome bioinformatics and statistics, and its clinical translation. The tasks include: 1) survival analysis of clinical data; 2) development of robust regression and unsupervised outlier detection methods; 3) integrative modeling of heterogeneous patient's data; 4) development of statistical and optimization methods for high-dimensional data.

Workplace and scientific supervision: The candidate will work in the Center of Intelligent Systems at the IDMEC (Instituto Superior Técnico, Lisboa, Portugal, under the supervision of Prof. Susana Vinga, coordinator of the Systems Engineering in the Life Sciences research line (http://sels.tecnico.ulisboa.pt/) and in interaction with the partners of SOUND, in particular with the Computational Biology Group and Prof. Niko Beerenwinkel at the ETH Zurich (https://www1.ethz.ch/bsse/cbg/people), Switzerland. Both teams are methodological with an expertise in computational and systems biology.

Duration: 12 months, from September 2016, and renewable for up to the duration of the project.

Application Deadline: 29 August 2016.

Documents to be submitted: Detailed curriculum vitae; motivation letter; copy of academic study certificates; name of two personal references. The applications should be submitted via email to sound.lisbon@gmail.com

For more details: http://sels.tecnico.ulisboa.pt/

SOUND
Statistical Multi-Omics Understanding

European Commission
Horizon 2020
European Union funding
for Research & Innovation