Call for expression of interest for one (1) Engineer-Data Scientist at the Institute of Computer Science, Foundation for Research and Technology – Hellas (FORTH)

Position: 1 position
Project: Dissecting Multi-Neuronal Modules of Computation in the Neocortex
Desired starting dates: As soon as candidates are available, one month after evaluation.
Duration: 6 months, with the possibility for further extension.
Location: Heraklion, Crete, Greece.
Opening date for applications: 28 December 2018
Closing date: 21 January 2019
Reference: “ELIDEK_December_2018”

Description:
We seek an engineer/data scientist for our team with a strong background in machine learning and/or statistical analysis. The candidate will participate in our new interdisciplinary project entitled “Dissecting Multi-Neuronal Modules of Computation in the Neocortex” funded by the General Secretariat for Research and Technology (GSRT) and the Hellenic Foundation for Research and Innovation (HFRI) for the support of postdoctoral researchers at the Institute of Computer Science at FORTH. The main focus of the project is...
the identification of the functional networks in the primary visual cortex. For that, we apply various machine-learning and statistical analysis algorithms to discover multi-neuronal motifs on data collected in vivo, using 2-photon imaging. Researchers from Harvard Medical School participate actively in this exciting project.

The engineer/data scientist will participate in various data preparation, analysis, and dissemination activities in the context of the project. Prior experience in machine learning, data science, and statistical analysis is an important aspect for the project. Experience in computational neuroscience is a plus but not a prerequisite.

**Required qualifications:**

- BSc. Degree in Computer Science, Computer Engineering, or a related field
- *In depth knowledge of machine-learning/signal processing*
- Physical presence at FORTH, Heraklion, Crete for the duration of the position
- *Strong programming experience in Matlab and/or R*
- Good programming experience in C/C++
- Willingness and ability to work cooperatively within a team, to learn, and to adapt to the various research activities
- Passionate to work in a research environment
- Excellent knowledge in English

**Desired qualifications:**

- M.Sc. degree in Computer Science or a related field, with a specialization in data analytics/machine-learning/signal processing
- Publications in the field of data analytics/machine-learning/signal processing
- Research experience

**Application Submission:**

Interested candidates can submit their applications via [http://www.ics.forth.gr/jobs/en/] using the link “Apply for the position” under the announcement. Applications will be evaluated at the end of the closing date; evaluators may reject some candidacies on the grounds of insufficient qualifications. Applications must include:

- Detailed CV;
• Scanned copies of academic titles;
• Detailed presentation of prior work, studies demonstrating knowledge of desired skills; Max 2 pages.
• Detailed presentation of the project(s) with data analysis/machine-learning emphasis, demonstrating knowledge of various algorithms and programming experience; detailed description of their exact role (participated, supervised, etc). Max 2 pages.
• 2 or 3 references from people that have worked with the candidate, sent directly to Professor Maria Papadopouli (mgp@ics.forth.gr)

Promising candidates may be invited for an interview before a decision is made.

Contact Information:
• For information and questions regarding the application and selection procedure, please contact: webmaster@ics.forth.gr
• For information and questions about the advertised position, please contact Professor Maria Papadopouli (mgp@ics.forth.gr) or George Tzagkarakis (geotzag@gmail.com)

Selection Announcement
The result of the selection will be announced on the website of ICS-FORTH. Candidates have the right to appeal the selection decision, by addressing their written objection to the ICS secretariat within five (5) days since the results announcement on the web. They also have the right to access (a) the files of the candidates as well as (b) the table of candidates’ scores (ranking of candidates results). All the above information related to the selection procedure will be available at the secretariat of ICS- FORTH in line with the Hellenic Data Protection Authority. Access to personal data of co-candidates shall be limited to personal data (and relevant data) and supporting documents which have been the basis of the evaluation of the candidates for the specific post(s). Prior to the announcement of the personal data and/or documents of the co-candidates to the applicant, FORTH will inform the data subjects in an appropriate way.
This project has received funding from the Hellenic Foundation for Research and Innovation (HFRI) and the General Secretariat for Research and Technology (GSRT), under grant agreement No 2285.