

ΑΝΑΡΤΗΤΕΑ ΣΤΟ ΔΙΑΔΙΚΤΥΟ



ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ
 ΥΠΟΥΡΓΕΙΟ ΑΝΑΠΤΥΞΗΣ ΚΑΙ ΕΠΕΝΔΥΣΕΩΝ
 ΓΕΝΙΚΗ ΓΡΑΜΜΑΤΕΙΑ ΕΡΕΥΝΑΣ ΚΑΙ ΚΑΙΝΟΤΟΜΙΑΣ
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ΙΝΣΤΙΤΟΥΤΟ ΠΛΗΡΟΦΟΡΙΚΗΣ
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 Ηράκλειο 15-02-2023

Call for expression of interest for two (2) systems software engineers, with MSc degree in Computer Science or Computer Engineering, at the Institute of Computer Science (ICS) Foundation for Research and Technology – Hellas (FORTH)



Position(s): Two (2) positions in the SPACE project
Project: *SPACE*, κωδ. 101093441 funded under HORIZON-EUROHPC-JU-2021-COE-01-01.
Duration: 6 months, with possibility of extension
Location: Heraklion, Crete, Greece
Opening date: 15/2/2023
Closing date: 28/2/2023
Reference: "Project_SPACE_2_software_engineers_with_MSc_degree_Feb2023"

Description

We seek two (2) systems software engineers, with a MSc degree in Computer Science or Computer Engineering. The candidates will contribute to the R&D activities of FORTH, in the context of the EuroHPC-funded project SPACE, in either a full-time (preferred) or part-time capacity. The SPACE Centre-of-Excellence project aims to foster the reuse and sharing of algorithms and software components in the Astrophysics and Cosmology (A&C) application domain, where High Performance Computing (HPC)-based numerical simulations are outstanding instruments for scientific discovery. SPACE aims to extensively re-engineer the target codes to engage with new computational solutions suitable for exascale and post-exascale computing systems, and to adopt innovative programming paradigms, software solutions, and libraries. The SPACE consortium will pursue this goal through co-design activities that bring together scientists, code developers, HPC experts, HW manufacturers and SW developers, advancing lighthouse exascale A&C applications, codes, services and know-how promoting the use of upcoming exascale and post-exascale computing capabilities. In addition, SPACE will address the high-performance data analysis of the data torrent produced by exascale A&C simulation applications, also with machine-learning and visualization tools. The deployment of applications running on different platforms will be facilitated by federating capabilities focusing on code repositories and data sharing, and integrating European astrophysical communities around exascale computing by adopting software and data standards and interoperability protocols.

Requirements

- MSc degree in Computer Science or Computer Engineering
- Fluency in system-level programming with the C and Python programming languages, in a Linux environment
- Demonstrated experience in performance analysis and extensions of implementations of the Messaging Passing Interface (MPI), particularly with at least one of Open MPI, MPICH
- Demonstrated experience in the development and experimental evaluation of parallel MPI-based applications
- Fluency in English (B2 level or higher)
- Physical presence at FORTH, Heraklion, Crete for the duration of the position
- Names of at least three professional references.

Desired qualifications

- Familiarity with the operational principles of HPC cluster resource management systems (eg. SLURM)
- Experience with multithreaded programming in combination with MPI (eg. OpenMP).

Application Submission

Interested candidates can submit their applications via <https://www.ics.forth.gr/jobs> using the link “Apply for the position” under the announcement. Applications must include:

- Detailed CV, including qualifications and interests in the above areas, and proof thereof
- Scanned copies of academic and other titles.

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 positions, the activities of the group, or the Institute, please contact Stelios Louloudakis (slouloudak@ics.forth.gr).

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.

FORTH is compliant with all legal procedures for the processing of personal data as defined by the **Regulation EU/2016/679 on the protection of natural persons with regard to the processing of personal data**.

FORTH processes the personal data and relevant supporting documents that you have submitted to us. Processing of that data is carried out exclusively for the needs and purposes of this specific call. Such data shall not be transmitted to or communicated to any third party unless required by law.

FORTH retains the above data up to the announcement of the final results of the call, unless further process and reservation is required by law or for purposes of exercise, enforcement, prosecution of certain one's legitimate legal rights' as defined in the Regulation EU/2016/679 and/or in national law.

We inform you that under the Regulation EU/2016/679 you have the rights to be informed about your personal data, access to, rectification and erasure, restrictions of process and objection to as provided by applicable regulation and national laws.

We acknowledge also to you, that you have the right to file a complaint to the national Data Protection Authority. For any further information regarding exercise of your personal data protection rights, you may contact the Data Protection Officer at FORTH at dpo@admin.forth.gr.

You have the right to withdraw your application and consent for the processing of your personal data at any time. We inform you that, in this case, FORTH shall destroy such documents and/or supporting documents submitted and shall delete the related personal data.