Call for expression of interest for one (1) position of a Post-Doctoral Researcher, in the Institute of Computer Science (ICS) Foundation for Research and Technology – Hellas (FORTH)

Position(s): One (1) position for the Plasma-PEPSC project
Project: Plasma-PEPSC (GA 101093261) funded under HORIZON-EUROHPC-JU-2021-COE-01.
Location: Heraklion, Crete, Greece
Opening date: 15/02/2024
Closing date: 26/02/2024
Reference: “Project_Plasma_PEPSC_PostDoc_Feb2024”

Description
We seek one (1) Post-Doctoral Researcher for our team. The candidates should have proven experience with RISC-V or ARM architectures with a background in European Research Projects. The candidates will participate in the R&D activities of FORTH-ICS in the context of the EuroHPC JU project Plasma-PEPSC. Plasma science has been at the forefront of HPC for several decades, driving and at the same time benefiting greatly from innovative hardware and software developments. The overall goal of Plasma-PEPSC is to take this development to the next level, enabling scientific breakthroughs in plasma science Grand Challenges through exascale computing and extreme-scale data analytics. Specifically, the project aims to enable unprecedented simulations on current pre-exascale and future exascale platforms in Europe to control plasma-material interfaces, optimize magnetically confined fusion plasmas, design next-generation plasma accelerators and predict space plasma dynamics in the Earth’s magnetosphere. These goals will be achieved by maximizing the parallel performance and efficiency of four European flagship plasma codes with a large user base: BIT, GENE, PConGPU, and Vlasiator. The project will build on algorithmic advances (regarding load balancing, resilience, and data compression) as well as on programming model and library developments (MPI, accelerator and data movement APIs and runtimes, in-situ data analysis). Plasma-PEPSC brings together an exceptional, interdisciplinary group of highly-recognized leading scientists from academia, research centres, and HPC centres, with decades of experience in algorithmic and method developments, extreme-scale plasma simulations, and application optimizations with high involvement in strategic EuroHPC projects and initiatives.
Requirements:
• PhD in Computer Science or Computer Engineering or Electrical Engineering.
• At least 2 years of professional experience in related roles after the PhD.
• Experience with RISC-V or ARM architectures.
• Experience with performance analysis and optimization for accelerators such as Vector or GPUs.
• Experience in European Research Projects.
• Physical presence at FORTH, Heraklion, Crete for the duration of the position.
• Fluent knowledge of the English language.
• Names of at least three professional references.

Desired qualifications:
Knowledge of and/or experience in and/or strong interest to learn:
• Parallel programming frameworks.
• Test-driven development and validation.

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 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 Nikolaos Papadopoulos (nickpap@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.
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.