

## ΑΝΑΡΤΗΤΕΑ ΣΤΟ ΔΙΑΔΙΚΤΥΟ



ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ  
ΥΠΟΥΡΓΕΙΟ ΑΝΑΠΤΥΞΗΣ ΚΑΙ ΕΠΕΝΔΥΣΕΩΝ  
ΓΕΝΙΚΗ ΓΡΑΜΜΑΤΕΙΑ ΕΡΕΥΝΑΣ ΚΑΙ ΚΑΙΝΟΤΟΜΙΑΣ

**ΙΔΡΥΜΑ ΤΕΧΝΟΛΟΓΙΑΣ ΚΑΙ ΕΡΕΥΝΑΣ, ΙΝΣΤΙΤΟΥΤΟ ΠΛΗΡΟΦΟΡΙΚΗΣ**

Ταχ. Διεύθυνση: Ν. Πλαστήρα 100, 70013 Ηράκλειο Κρήτης

Α.Π. 73911  
Ηράκλειο, 9-3-2022

**Call for expression of interest for one (1) position, for one (1) MSc holder in Information Systems in the  
Institute of Computer Science (ICS) Foundation for Research and Technology – Hellas (FORTH)**



**Position(s):** One (1) position for the Morphemic H2020 project

**Project:** “Morphemic – Modelling and Orchestrating heterogeneous Resources and Polymorphic applications for Holistic Execution and adaptation of Models In The Cloud” (Grant Agreement number: 871643) funded under Horizon 2020, H2020-ICT-2018-2020/H2020-ICT-2019-2

**Desired starting date:** May 1st, 2022

**Duration:** 12 months with possibility of extension

**Location:** Heraklion, Crete, Greece

**Opening date:** 9/3/2022

**Closing date:** 24/3/2022

**Ref.:** “Morphemic-SE-May2022”

**Description**

We seek one experienced member for our team, and specifically a MSc holder in Information Systems, with background in European RTD Projects. The candidate will participate in the R&D activities of FORTH-ICS in the context of the H2020 project “Morphemic – Modelling and Orchestrating heterogeneous Resources and Polymorphic applications for Holistic Execution and adaptation of Models In The Cloud”, funded under Horizon 2020, H2020-ICT-2018-2020/H2020-ICT-2019-2 and will work on Software Engineering and Knowledge/Database Management tasks of the project.

**Morphemic** is coordinated by University of Oslo and FORTH-ICS is a member of the project consortium. The project aims to extend an existing multi-cloud application management platform called Melodic according to two main directions: (a) enabling applications to change form/architecture at runtime based on the application requirements and current context; (b) allow applications to utilise an enhanced set of resources, including HPC, edge as well as hardware-accelerated ones. This will realise the vision of polymorphic applications that change form and resources at will based on the current application context and requirements. Further, the project includes the innovative feature of discovering alternative configurations for application components in the context of detecting new forms/architectures for applications and their components. Such configurations could be derived by inspecting existing, well-known open-source software component repositories like github and classifying the respective code according to both its functionality and configuration. The current position is mainly related to this feature and includes the conduction of work related to analysing and ranking open-source code as well as matching such code with the components of a specific application. The position is also related with the development of cloud service enrichment mechanisms.

### **Requirements and desired qualifications**

A) One position for a MSc Holder in Information Systems

#### **Required qualifications:**

- BSc degree in Computer Science or Information & Telecommunication Systems Engineering
- MSc on Information Systems
- At least 10 years of demonstrated development experience with European and/or National ICT R&D projects
- At least 10 years of work experience in the development of information systems and web applications with emphasis on:
  - Semantic Web and related technologies, such as RDF / S, XML, SPARQL, etc.
  - Experience in developing and maintaining web applications and websites
- Demonstrated programming ability in the following languages, technologies and systems:
  - Programming Languages: Java
  - Internet Technologies: HTML / CSS, Bootstrap, Javascript, PHP
  - Semantic Web Technologies: RDF / S, OWL, XML, SPARQL
  - Technologies and systems for storing and processing semantic and relational data
    - Semantic Data Storage Systems: Virtuoso, Blazegraph
    - Relational Databases: MySQL, PostgreSQL, Oracle
  - Software Development Tools: Maven, Git, Netbeans, Eclipse, Protégé
  - Content Management Systems: Drupal, Wordpress, Joomla
  - Project Management Systems: Trello, MS Project, Redmine
- Working experience in research team
- Excellent knowledge of English (C2)
- Letters of recommendation
- Completed military obligations (for Greek citizen male candidates)

#### **Desired qualifications:**

- Proven experience in writing scientific articles in conferences and / or journals

#### **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 titles; academic transcript for undergraduate and postgraduate degrees
- Letters of recommendation, detailed presentation of prior work, studies and/or publications, work attestations, demonstrating knowledge of desired skills.
- Certificate of completion of military obligations (for Greek citizen male candidates)

**Contact Information:**

For information and questions about the advertised position, the activity of the group or the Institute, please contact Maria Moutsaki at [moutsaki@ics.forth.gr](mailto:moutsaki@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](mailto: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.