

ΑΝΑΡΤΗΤΕΑ ΣΤΟ ΔΙΑΔΙΚΤΥΟ



ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ  
ΥΠΟΥΡΓΕΙΟ ΑΝΑΠΤΥΞΗΣ ΚΑΙ ΕΠΕΝΔΥΣΕΩΝ  
ΓΕΝΙΚΗ ΓΡΑΜΜΑΤΕΙΑ ΕΡΕΥΝΑΣ ΚΑΙ ΚΑΙΝΟΤΟΜΙΑΣ

**ΙΔΡΥΜΑ ΤΕΧΝΟΛΟΓΙΑΣ ΚΑΙ ΕΡΕΥΝΑΣ**  
**ΙΝΣΤΙΤΟΥΤΟ ΠΛΗΡΟΦΟΡΙΚΗΣ**  
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Ηράκλειο 24/05/2021

**Call for expression of interest for one (1) position of Ph.D Student  
in the Institute of Computer Science (ICS)  
Foundation for Research and Technology – Hellas (FORTH)**



**Position : One (1) Ph.D Student** for the FELICE H2020 project

**Project:** ““FELICE-FIExible assembly manufacturIng with human-robot Collaboration and digital twin modEls” (Grant Agreement number: 101017151), funded under Horizon 2020, H2020-ICT-2020-2.

**Desired starting date:** July 1<sup>st</sup>, 2021

**Duration:** 6 months with possibility of extension

**Location:** Heraklion, Crete, Greece

**Opening date:** 24/05/2021

**Closing date:** 08/06/2021.

**Ref. :** FELICE-May2021

**Description**

We seek one Ph.D Student in Computer Vision with background in RTD projects. The candidate will participate in the R&D activities of FORTH-ICS in the context of H2020 project “FELICE - FIExible assembly manufacturIng with human-robot Collaboration and digital twin modEls”, funded under

Horizon 2020, H2020-ICT-2020-2 and will work on Computer Vision related aspects.

FELICE aspires to design the next generation assembly processes required to address urgent needs in manufacturing. It unites multidisciplinary research in robotics, AI, computer vision, data analytics, process optimization and ergonomics to deliver a modular platform capable to integrate and harmonize an array of autonomous and cognitive technologies aiming to increase the agility and productivity of an assembly production system and also ensure the safety and physical and mental well-being of human workers. To achieve these goals, technologies will be developed combining the accuracy and endurance of robots with the cognitive ability and flexibility of humans. Such flexible and configurable technologies will support future manufacturing assembly floors to become agile, and address Industry4.0. FELICE will i) implement perception and cognition capabilities allowing the system to build context-awareness, ii) advance human-robot collaboration in otherwise manual assembly lines, enabling robots to safely and ergonomically share tasks with humans, allowing the flexible reconfiguration of an assembly production process and, iii) realize a manufacturing digital twin, i.e. a virtual representation tightly coupled with production assets and the actual assembly process to enable the management of operating conditions, the simulation of the assembly process and the optimization of performance aspects and, iv) integrate developments in an industrial assembly line for agile production. FELICE has two pilot environments: one for technology validation and one related to car assembly.

The candidate will contribute in tasks regarding the visual perception of human parameters and action monitoring during assembly task execution.

**Required qualifications:**

- B.Sc degree in Computer Science or related Engineering field
- M.Sc degree in Computer Science or related Engineering field
- Enrollment to a Ph.D Program in Computer Science or Computer Engineering
- Demonstrated experience with ICT R&D projects
- Research experience - Publications in the field of computer vision with emphasis on human monitoring
- Experience in machine learning algorithms
- Willingness and ability to work in a team, to learn, and to take initiatives
- Communication skills
- Programming languages: C, C++, python

**Desired qualifications:**

- Experience with development tools: opencv, pcl, scipy, Matlab.
- Hands-on experience with deep neural networks

**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:

- Cover letter clearly mentioning the position applying for and the documents attached with the application;
- Detailed CV, including qualifications and interests in the above areas, and proof thereof;
- Scanned copies of academic titles;
- Detailed presentation of prior work, studies and/or publications, references etc. demonstrating knowledge of desired skills (e.g. experience on specific programming languages and hardware platforms).

The candidates may be invited for interview (onsite or remotely) if deemed necessary.

**Contact Information:**

For information and questions about the advertised position, the activity of the group or the Institute,

please contact Mrs Eleni Gaga ([gaga@ics.forth.gr](mailto:gaga@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.

### **Disclaimer**

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.