



Patras, 17/02/2021

Ref. No.: 47175

**Invitation for Expression of Interest:
Research Assistant “Development & Manufacturing of graphene-based sensors”**

The Institute of Chemical Engineering Sciences, Foundation of Research and Technology - Hellas, (FORTH/ICE-HT) is seeking applicants for one position of a research assistant in the context of the research project “Graphene Flagship Core Project 3 - GA: 881603”. The project is implemented under the EU-Horizon 2020 Research & Innovation Actions (RIA) and is financially supported by EC-financed parts of the Graphene Flagship.

Job Description

To conduct research in the framework of the aforementioned project “Graphene Flagship Core Project 3”. The objective of this project is to advance the technologies developed in the previous phases to higher maturity (TRL6) and to develop three technology demonstrators (a large scale for single aisle aircraft, a rotor blade for helicopters, and a ventilation scoop air inlet) for specific use cases needed by the industrial partners participated.

The person chosen will develop and implement capacitive humidity sensors based on graphene oxide, a derivative of graphene with oxygen groups, which has been shown considerable advantage as a material for sensing applications, especially for water detection. Developing and testing such sensors for their ice-detection capability (sensitivity, selectivity) would be a major technological advance, also due to the option of using the same technology as sensor and actuator.

Location: FORTH/ICE-HT, Patras, Greece

Duration: 12 months, with a potential of renewal, under the same conditions, according to the needs of the project

Fellowship: up to 840 € per month, depending on qualifications

Envisaged starting date: 01/04/2021

Requirements and Qualifications

The candidates are required to hold a Diploma in Chemical Engineering and must have been admitted to a PhD programme by a Greek University. Moreover, the candidates must be fluent in Greek and English, in order to meet working conditions. The appropriate candidate should have:

- a) Experience in the preparation and characterization of materials, especially in graphene and other 2D related materials
- b) A great scientific background in materials, especially in 2D related materials.
- c) Strong personality and good communication skills
- d) Be a flexible and reliable person
- e) Be capable of autonomous working

The evaluation of the candidacies will be based on the following criteria and qualifications:



Qualifications	Weight	Evaluation criteria
Diploma in Chemical Engineering	40	Grade Diploma X 4
Proven research and lab experience in: (i) Production of Graphene and related materials (GRMs) and other 2D materials (ii) Metrology and standardization methodologies, (iii) Characterization techniques (iv) Develop sensing devices made by graphene related materials	40	Duration of proven research experience in research groups and projects Topics I, ii, iii and iv max 10 points/year
Interview	20	Presentation of related work and technical expertise to the related subject – max 15 points Communication and other required skills – max 5 points

Application Submission

Interested candidates who meet the aforementioned requirements should submit their applications, no later than 4/3/2021, 16:00h., by email to Kleanthi Zacharopoulou: kleanthi@iceht.forth.gr.

In order to be considered, the application must include:

- Application letter
- CV
- Scanned copies of academic titles
- Certificates of previous experience

Any application received after the deadline will not be considered for the selection.

Selection Procedure

Applications that are received on time will be evaluated by a scientific committee using the criteria mentioned above. If necessary, certain candidates will be invited to a personal interview with the committee.

The outcome of the selection will be announced on the website of FORTH/ICE-HT as well as on the website of "DIAVGEIA".

Contact

For information and questions regarding the application and selection procedure, candidates are asked to contact the FORTH/ICE-HT Research Secretariat, e-mail: kleanthi@iceht.forth.gr, tel.: +30 2610 965278.

For information and questions about the advertised position and the research activity of the group or the Institute, candidates are asked to contact Professor Costas Galiotis, tel: +30 2610 965255, e-mail: c.galiotis@iceht.forth.gr.



General Protection Data Regulation

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.

For FORTH/ICE-HT,

Vasilis Burganos
Director

