HELLENIC REPUBLIC
MINISTRY OF DEVELOPMENT
GENERAL SECRETARIAT FOR RESEARCH & INNOVATION

FORTH
FOUNDATION FOR RESEARCH & TECHNOLOGY - HELLAS
INSTITUTE OF CHEMICAL ENGINEERING SCIENCES

Patras, 22.09.2025

Ref. No.: 193862

Invitation for Expression of Interest:
PhD Fellowship "Understanding porous network properties in nanocarbons for optimizing electrochemical energy storage**"**

The Institute of Chemical Engineering Sciences, Foundation of Research and Technology - Hellas, (FORTH/ICE-HT) is seeking applicants for one PhD candidate position in the context of the research project «Energy autonomous smart clothing to enhance soldier safety and connectivity in the battleground (MINEFIELD), GA: 101168167», which is implemented under the «European Defence Fund (EDF) Lump Sum Grants».

Job Description
To conduct research as a PhD candidate within the framework of the aforementioned project, "MINEFIELD." The main objective of MINEFIELD is to advance innovative textile-embedded energy-harvesting devices, placing significant focus on power generation, energy storage, and power management technologies. This endeavour encompasses the development and implementation of an autonomous system combining energy-harvesting and storage units, seamlessly integrating these technologies into fabrics and equipment to enhance the operational capabilities of various users. The selected candidate will conduct research, as a graduate student (PhD), within the framework of the aforementioned project, "MINEFIELD," in the field of optimizing porous graphene-based networks serving as supercapacitor electrodes for electrochemical energy storage devices.

Location: FORTH/ICE-HT, Patras, Greece
Duration: up to 6 months, with the potential of renewal or extension according to the needs of the project.
Fellowship: up to approximately 850 € per month (graduate fellowship) depending on qualifications.
Envisaged starting date: 01/11/2025

Requirements and Qualifications
The applicant should hold both undergraduate (BSc) and MSc degree in Physics or Chemistry or Materials Science, or related field. Additionally, candidates should have been enrolled in a Ph.D. program in Physics, Chemistry, Materials Science, or relevant field. Preference will be given to candidates with experience in: (i) the use of lasers to prepare graphene-based nanomaterials by transforming various carbon sources, (ii) the study of porous graphene-based materials, and (iii) the fabrication of supercapacitor electrodes and conducting their electrochemical characterization using relevant techniques. Candidates must be fluent in Greek language and have a good knowledge of English (at least level B2) language.

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

Qualifications	Weight	Evaluation criteria
Proven experience in synthesis and characterization of laser-assisted porous graphene-based materials	40	Demonstrated through 1. Relevance of master thesis: strong relevance: 10 points, medium relevance: 7 points, weak relevance: 3 points 2. Contribution with oral or poster presentations in international conferences and workshops: 8 points for each, up to 30 points
Proven experience in electrochemical energy storage devices with emphasis on supercapacitors	40	Demonstrated through participation in relevant national or international research projects 20 points per year
Master's degree grade	20	2 x master degree Grade (if grade is in 1 – 10 scale). For other grading systems, the algorithm will be appropriately applied
Overall	**100**	

Application Submission

Interested candidates who meet the aforementioned requirements should submit their applications, no later than 2/10/2025, 16:00h., by email to Kleanthi Zacharopoulou: kleanthi@iceht.forth.gr, cc.: Spyros Yannopoulos: sny@iceht.forth.gr.

In order to be considered, the application must include:

- Application letter
- CV
- Scanned copies of academic titles & English language certificate
- Certificate of registration as a PhD student
- Copy of Master thesis
- Certificates (abstracts and/or proceedings and/or presentations) of international conferences and workshops participation
- Employer's certificate and any other official documentation of the required 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.

Interview Criteria: (a) Background in the objective of the assignment (5 points). (b) Organizational and communication skills (5 points). (c) Team-spirit and self-motivation (5 points). (d) Commitment to achieving the goals (5 points)

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

In case of titles and qualifications awarded by foreign Higher Education Institutions, the provisions of the Law 55/2023 (article 36) and 4957/2022 (article 304) are implemented.

Selection Announcement

The result of the selection will be announced on the website of: FORTH/ICE-HT.
Candidates have the right to appeal the selection decision, by addressing their written objection to the FORTH/ICE-HT Research Secretariat, e-mail: kleanthi@iceht.forth.gr, within five (5) days after the results announcement on the web.

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 Spyros Yannopoulos: tel: 30 2610 965252, email: sny@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,

Theophilos Ioannides
Director