



Patras, 29.3.2023

Ref. No.: 104922

Invitation for Expression of Interest:

MSc Fellowship “Laser-assisted synthesis of graphene-based nanomaterials for supercapacitors”

The Institute of Chemical Engineering Sciences, Foundation of Research and Technology - Hellas, (FORTH/ICE-HT) is seeking applicants for one MSc fellowship position in the context of the research project «Efficient materials and processes for high-energy supercapacitors for smart textiles and electromobility applications» (EMPHASIS)», Project: 101091997— EMPHASIS, which is implemented under the HORIZON Research and Innovation Actions.

Job Description

To conduct research as a MSc candidate in the framework of the aforementioned project “EMPHASIS”. The main objective of EMPHASIS is to develop a holistic approach encompassing the design and development of (i) novel and green materials, (ii) cost-effective and sustainable processes and (iii) advanced device architectures to define a credible approach for the fabrication of next generation supercapacitors. The selected candidate will conduct research, as a graduate student (master), in the framework of the aforementioned project “EMPHASIS”, in the design and implementation of experiments for the optimization of laser-assisted synthesis and physicochemical characterization of graphene/metal oxide nanohybrids for supercapacitor electrodes.

Location: FORTH/ICE-HT, Patras, Greece

Duration: up to 7 months, with the potential of renewal or extension according to the needs of the project

Fellowship: up to approximately 600 € per month (graduate fellowship) depending on qualifications

Envisaged starting date: 01/05/2023

Requirements and Qualifications

The applicant should hold undergraduate B.S. in Physics or Chemistry or Materials Science or relevant field. The candidate should have been registered as a Graduate student (Msc) in Materials Science in a Physics or Chemistry or Materials Science Department or related discipline. Experience with laser-assisted synthesis of graphene and graphene/nanoparticles hybrids and their physicochemical characterization would be strongly favored. 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 laser-assisted synthesis of graphene-based nanomaterials for supercapacitors	30	<p>Demonstrated through</p> <ol style="list-style-type: none"> 1. Relevance of Undergraduate Diploma Thesis: strong relevance: 10 points, medium relevance: 7 points, weak relevance: 4 points 2. Relevance of the undergraduate internship training: strong relevance: 20 points, medium relevance: 10 points, weak relevance: 5 points



B.S. grade	30	3 x B.S. or Diploma Grade (if grade is out of 10); For other grading systems, the algorithm will be appropriately applied
Interview	25	(a) Background in the objective of the assignment (10 points). (b) Organizational and communication skills (5 points). (c) Team-spirit and self-motivation (5 points). (d) Commitment to achieving the goals (5 points).
Knowledge of English Language	15	12 points (C1), 15 points (C2)
Overall	100	

Application Submission

Interested candidates who meet the aforementioned requirements should submit their applications, no later than 7/04/2023, 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 & English language certificate
- Certification of registration in a MSc program
- Copy of B.S. thesis
- Certificate of undergraduate internship training

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.

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 995252, 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,

Vasilis Burganos
Director

