



Patras, 28.3.2024

Ref. No.: 136649

Invitation for Expression of Interest:

Postdoctoral Research Assignment “Fabrication and characterization of graphene-based micro-flexible capacitors and gel electrolytes”

The Institute of Chemical Engineering Sciences, Foundation of Research and Technology - Hellas, (FORTH/ICE-HT) is seeking applicants for one postdoctoral research assignment in the context of the research project «Innovative pilot lines for sustainable graphene-based flexible and structural energy harvesting and storage devices (GRAPHERGIA), GA: 101120832», which is implemented under the HORIZON EUROPE.

Job Description

To carry out, under a work or fixed-term employment contract in the framework of the aforementioned project “GRAPHERGIA”. The main objective of GRAPHERGIA is to develop a new science-based, holistic approach, implementing new advances to achieve one-step, laser-assisted synthesis, processing, functionalization and simultaneous integration of graphene-based materials and graphene nanohybrids, directly into relevant energy harvesting/storage devices. The selected candidate will conduct research in the framework of the aforementioned project “GRAPHERGIA”, in the study of Synthesis and modelling porous materials for energy applications.

Location: FORTH/ICE-HT, Patras, Greece

Duration: up to 12 months, with the potential of renewal or extension according to the needs of the project

Salary: up to approximately 2500 € per month (total cost of the employer, including social security and taxes) depending on the qualifications and time devoted to project

Envisaged starting date: 01/08/2024

Requirements and Qualifications

The applicant should hold MSc and PhD degrees in Physics or Chemistry, or Materials Science, or a related field. Preference will be given to candidates with experience in the following topics: synthesis and characterization of materials for energy-related applications, batteries and supercapacitors, flexible and printed electronics, polymer hydrogel electrolytes for flexible solid-state supercapacitors, and stable colloidal dispersion/inks. Candidates must be fluent in English.

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

Qualifications	Weight	Evaluation criteria
Relevance of the masters and PhD theses with supercapacitor devices	25	MSc thesis: High relevance: 10 points; low relevance: 5 points PhD thesis: High relevance: 15 points; Medium relevance: 10 points; low relevance: 5 points



Proven experience in the synthesis of porous graphene-based nanomaterials with application to supercapacitors	20	Demonstrated through: Relevant publications in peer-reviewed international journals: 5 points per article, up to 10 points. Relevant patents: 10 points per patent, up to 10 points.
Proven experience in the development of polymer hydrogel electrolytes for flexible solid-state supercapacitors	20	Demonstrated through: Relevant publications in peer-reviewed international journals: 10 points per article, up to 10 points. Relevant patents: 10 points per patent, up to 10 points.
Proven experience in the use of structural and spectroscopic techniques in the study of graphene-based materials	10	Demonstrated through: Certificates showing the operation expertise: 5 points per technique, up to 10 points.
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)
TOTAL	100	

Application Submission

Interested candidates who meet the aforementioned requirements should submit their applications, no later than 8/4/2024, 16:00 h, by email to Kleanthi Zacharopoulou: kleanthi@iceht.forth.gr.

In order to be considered, the application must include:

- Application letter
- CV with clear description of the methodologies possessed by the applicant and the level of experience
- Scanned copies of academic titles & English language certificate
- Certificates in the use of structural and spectroscopic techniques
- Copies of the publications in peer-reviewed journals and patents
- Copy of the MSc thesis
- Copy of the PhD thesis
- 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.

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

