



HELLENIC REPUBLIC
MINISTRY OF DEVELOPMENT
GENERAL SECRETARIAT FOR RESEARCH & INNOVATION



FORTH

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

Patras, 20.6.2025

Ref. No.: 183578



Invitation for Expression of Interest:

Postdoctoral Research Assignment “Modelling-based investigation of multi-scale structures and properties of carbon-based porous electrodes”

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 conduct, under a work or a fixed-term employment contract, research and development as an experienced scientist 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 provide expertise in the framework of the aforementioned project “GRAPHERGIA”, related to the development of modelling and simulation tools for the investigation of structures and related processes at various length scales of carbon-based porous materials, employed as electrodes in electrochemical 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

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: 01/08/2025

Requirements and Qualifications

The applicant should have a Bachelor’s degree (BSc) in Physics, Chemistry, or a relevant field, and a MSc degree in Physical Sciences or Chemical Engineering. Candidates must hold a PhD in physical and chemical processes in porous media, with an emphasis on computational/numerical approaches. Strong preference will be given to candidates with experience in programming languages, numerical methods, and the use of related commercial software packages. Previous participation in research projects is advantageous. 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 the implementation of numerical methods	30	Duration of proven experience in numerical methods: 5 points /year, with maximum of 30 points
Publications in peer-reviewed international journals related to computational studies of transport phenomena	20	Number of relevant publications in peer-reviewed international journals: 3 points/publication, max 20 points
PhD thesis relevance to the study of physical and chemical processes in porous media using computational/numerical approaches	30	Degree of relevance: strong relevance: 30 points, medium relevance: 15 points, weak relevance: 5 points
Participation in research projects after obtaining the PhD degree	20	4 points per year; up to 20 points
Overall	100	

Application Submission

Interested candidates who meet the aforementioned requirements should submit their applications, no later than 2/7/2025, 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
- Copies of publications in peer-reviewed international journals
- Copy of 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.

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,

Theofilos Ioannides
Director

