



Patras, 22.04.2026

Ref. No.: 218246

Invitation for Expression of Interest:

Postdoctoral Research Assignment “Synthesis, characterization and operation of electrolytes/electrodes for chemical energy production under steam electrolysis conditions”

The Institute of Chemical Engineering Sciences, Foundation for Research and Technology - Hellas, (FORTH/ICE- HT) is seeking applicants for one postdoctoral research assignment in the context of the research project “Novel SOE architectures for hydrogen production (NOAH2)” - Grant Agreement number: 101137600, which is implemented under the HORIZON EUROPE, HORIZON-JTI-CLEANH2-2023-1.

Job Description

To conduct postdoctoral research under a work assignment or a fixed-term employment contract in the framework of the aforementioned project “Novel SOE architectures for hydrogen production _ Project acronym: NOAH2 _ P. No 101137600”. The aim of this research is to understand the degradation and lifetime operation fundamentals of new Solid Oxide Cell (SOC) fuel electrodes, developed with novel chemical synthesis methods, at high (750 – 900 °C) and intermediate (600 – 750 °C) temperature H₂O electrolysis and fuel cell operation conditions.

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 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: 01/06/2026

Requirements and Qualifications

Candidates must be fluent in Greek language and have good knowledge of the English (at least level B2) language. Moreover, they should possess the following qualifications:

- Diploma in Chemical Engineering and/or in Chemistry



- PhD Thesis in the field of Chemistry, relevant to the topic of the research assignment. Experience on synthesis and characterization of electrolyte materials will be favored
- Research experience, of at least 36 months after obtaining the PhD, in the investigation of materials and processes relative to the topic of the research assignment
- Awards and scientific publications in international peer-reviewed journals, relative to the subject of the research assignment

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

Qualifications	Weight	Evaluation criteria
Proven experience in the synthesis characterization and testing of electrolyte/electrode materials	50	Demonstrated through: 1. Awards and scientific publications in peer-reviewed international journals: 2 points per award & article, up to 15 points 2. Research experience in the investigation of materials and processes relative to the topic of the research assignment: 0.5 point/month, with a maximum of 20 points 3. Participation in funded research projects: 5 points per project participation; up to 15 points
Relevance of the PhD thesis	20	High relevance: 20 points; Medium relevance: 10 points; low relevance: 5 points
Knowledge of English Language	10	C1: 5 points, C2: 10 points
Interview	20	(a) the candidate's broader scientific background in the field of the position to be filled (10 points), (b) independence in carrying out a high-quality research (5 points), (c) ability to collaborate and effectively communicate ideas within a research group (5 points)
TOTAL	100	

Application Submission

Interested candidates who meet the aforementioned requirements should submit their applications, no later than 4/5/2026, 16.00h., by email to Kleanthi Zacharopoulou: kleanthi@iceht.forth.gr, cc: niakolas@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 the publications in peer-reviewed journals
- 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. If necessary, certain candidates will be invited to a personal interview with the committee.

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

For information and questions about the advertised position and the research activity of the group or the Institute, candidates are asked to contact Dr. Dimitris Niakolas, tel: +30 2610 965240, e-mail: niakolas@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

