



Patras, 10/ 01/2017

Ref. No.: 35

Invitation for Expression of Interest:

Postdoctoral/Research Assignment “Development and characterization of electrocatalysts for the investigation of the H₂O/CO₂ co-electrolysis process on Solid Oxide high temperature electrolysis cells”

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 “SElySOs, GA: 671481: Development of new electrode materials and understanding of degradation mechanisms on Solid Oxide High Temperature Electrolysis Cells”.

The project is implemented under the **EU-Horizon 2020 Research Framework Programme** and is **financially supported by the Fuel Cells and Hydrogen 2 Joint Undertaking**.

Job Description

To conduct research in the framework of the aforementioned project “SElySOs, GA: 671481”. The aim of this research is to understand the degradation and lifetime fundamentals of the high (700 - 900⁰C) temperature H₂O electrolysis and to a certain extent for the H₂O/CO₂ co-electrolysis. The project is focusing on both of the Solid Oxide Electrolysis Cell (SOEC) electrodes, for minimization of their degradation and improvement of their performance and stability mainly under high temperature H₂O electrolysis for the production of H₂ and to a certain extent under H₂O/CO₂ co-electrolysis conditions for the production of syngas (H₂ and CO).

Location: FORTH/ICE-HT, Patras, Greece

Duration: 3 months with the potential of renewal

Salary: 2.500 Euros per month, VAT included

Envisaged starting date: 01/03/2017

Requirements and Qualifications

The candidates are required to hold a Diploma, MSc and PhD in Chemistry or Chemical Engineering. Moreover, the candidates must be fluent in both Greek and English, in order to meet working conditions.

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

Qualifications	Weight	Evaluation criteria
Diploma in Chemistry or Chemical Engineering	20	Diploma Grade, courses in catalysis
MSc in Chemical Engineering	15	Master of Science, Grade, graduate courses in investigation of materials for environmental/energy related reactions
PhD in Chemical Engineering	25	PhD thesis relevant to catalysis



Awards of excellence	10	Number and type of awards
Proven research and lab experience in the: (i) investigation of processes for the production of H ₂ or/and electricity, (ii) development of electrocatalysts/electrodes for the processes described and (iii) physicochemical characterization of electrocatalysts/electrodes.	30	Duration of proven research experience in research groups and projects. Quality and number of related publications in refereed journals and conference proceedings.

Application Submission

Interested candidates who meet the aforementioned requirements should submit their applications, no later than January 24th, 2017, 14:00h, 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
- Statement of research interests

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.

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

The selected candidate will be notified and asked to accept the position within three (3) working days and to present all relevant documents that should match the submitted ones.

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 Dr. Dimitris Niakolas, tel: +30 2610 965240, e-mail: niakolas@iceht.forth.gr.

For FORTH/ICE-HT,
Vasilis Burganos
Director

