



**FOUNDATION FOR RESEARCH AND TECHNOLOGY-HELLAS**  
INSTITUTE OF CHEMICAL ENGINEERING SCIENCES (FORTH/ICE-HT)

Patras, March 31<sup>st</sup>, 2014

Ref. No.: 1064

**INVITATION FOR EXPRESSION OF INTEREST**

**POST-DOCTORAL FELLOWSHIP "INVESTIGATION OF THE NANOPARTICLES REACTIVITY  
WITH ORGANO-CHLORINATED POLLUTANTS IN SOILS"**

The Institute of Chemical Engineering Sciences, Foundation of Research and Technology - Hellas, (FORTH/ICE-HT) is seeking applicants for one postdoctoral position in the context of the research project "SOILREM" titled "Optimizing the properties of nanofluids for the efficient in situ soil remediation".

The project is implemented in the frame of the Operational Program "Education and Lifelong Learning 2007-2013" - Action «EXCELLENCE II» - No 4118, and is co-financed by the European Union (European Social Fund) and Greek national funds.

**Job Description**

The research work is titled "Investigation of the nanoparticles reactivity with organo-chlorinated pollutants in soils" and concerns the following: (a) the development of a homogeneous set of protocols for tests in batch reactors; (b) the determination of the nanoparticles reactivity for a model pollutant and certain soil types; (c) the creation of a database with sorption and reaction equilibrium and kinetic data; (d) the quantification of the nanoparticles reactivity with the parameter estimation of selected models.

**Duration**

12 months

**Salary**

28.500 €

**Requirements and Qualifications**

The candidates must hold a University degree in Chemistry / Physics / Environmental Sciences / Pharmacy or an Engineering degree in Chemical Eng. / Environmental Eng. / Civil Eng. / Mechanical Eng., and must be Ph.D. holders or Ph.D. candidates with scheduled defense date before the 1st June 2014. In addition, their Ph.D. Thesis must be about physicochemical interactions of nanoparticles with natural systems, they must have publications in peer-reviewed international journals and proceedings of international conferences, and have proved experience on the (1) development / operation of experimental setups, (2) experimental techniques of material characterization and spectroscopic methods for the quantitative analysis of organic compounds in aqueous systems.

### Scoring of Credentials - Criteria

The eligible candidates will be evaluated with weight factors which are analyzed in detail below:

	Criterion	Weight factor (%)
1	Ph.D. Thesis in physicochemical interactions of nanoparticles with natural systems.	25
2	Publications in peer-reviewed international journals and proceedings of international conferences.	25
3	Experience on the development / operation of experimental setups.	25
4	Experience on experimental techniques of material characterization and spectroscopic methods for the quantitative analysis of organic compounds in aqueous systems.	25

### Deadline for submission of expression of interest

The position is open to suitably qualified candidates of any nationality. Indicative closing date for applications is Monday, April 14<sup>th</sup>, 2014.

### Application procedure

Please send your detailed CV and related materials, in PDF format, to [kleanthi@iceht.forth.gr](mailto:kleanthi@iceht.forth.gr).

### Evaluation - right to access documents / lodge appeal

Three-member Committee will evaluate the nominations.

The evaluation results will be posted on the website of FORTH / ICE-HT.

Following the posting of the results, interested parties have the right to:

- Lodge an appeal within five days of the day following the posting of the evaluation results.
- Access, within five days of the day following the posting of the evaluation results, after submitting a written request to the Contracting Authority, to the individual files and the individual evaluation/grading sheets of the remaining candidates provided the provisions are met in document no. C/EX/ 4163-1/06.07.2012 from the Hellenic Personal Data
- Protection Authority, ie. when he has a legitimate interest to defend his rights before the courts.

### Contact

For more information about FORTH/ICE-HT please visit the URL <http://www.iceht.forth.gr>

For further information about the post-doctoral fellowship please contact Dr. Christos Tsakiroglou, e-mail: [ctsakir@iceht.forth.gr](mailto:ctsakir@iceht.forth.gr).



For FORTH/ICE-HT,

Vasilis Burganos  
Director