

Nicosia, 23 October 2018

PhD Position at the Cyprus Institute

The Position and the Research

We seek a talented and ambitious researcher (PhD student) for a project to develop highly sensitive hydrogen sensors using well-defined nanostructured materials prepared by aerosol-based techniques. The successful candidate will be trained to use a range of advanced techniques for synthesizing, characterizing and depositing aerosolized nanoparticle building blocks, which he/she will then have to utilize to prepare the required nanomaterials for the gas sensors. The synthesized nanoparticle building blocks will differ with respect to composition, size and morphology, thereby providing means to control the properties of the sensing materials, and thus the performance of the final-product sensors.

The work will be carried out in the Nanoparticle/Nanomaterial Synthesis and Characterization Laboratory (NanoLab) of the Cyprus institute, while the tests of the sensing performance of the prepared nanomaterials will take place at the "Nanostructured Materials" group of the Department of Chemical Engineering at TU Delft in the Netherlands.

Expected starting date: within 2019.

The Institute and the Research Centre

The CyI is a new (funded in 2007) and rapidly growing non-profit research and educational institution with scientific and technological focus. It is supported by the Government of Cyprus, which views its establishment as important to its overall policy of transforming Cyprus into a regional centre for research and education. The Energy, Environment and Water Research Centre (EEWRC) of the CyI was launched in December 2007 as the first research centre of the Institute. EEWRC works in close collaboration with the Massachusetts Institute of Technology (MIT), the Max Planck Institute for Chemistry, and Delft University of Technology on societally relevant topics related to Energy and Renewables, Environment and Climate, as well as Water and Natural Resources.

The Candidate

The successful candidate will have to be a University graduate (MSc level) with a relevant academic degree (i.e., a degree in physics, chemistry and/or engineering). He/she should have a strong interest and provable affinity with nanotechnology and nanosciences. Other optional assets for this positions will be a background in Aerosol Science and Technology, and knowledge of using software such as Matlab, Comsol, Labview, SolidWorks or similar. Good oral and written communication skills in English, above-average study results, and the ability to work in interdisciplinary teams are a must.

Compensation

Estimated maximum salary per month: EUR 14000-15000 per annum

Employment basis: Temporary for specified period

Duration of the contract: 36 months, extendable

Maximum hours per week: 40 (50% work on the project and 50% self study)

Other Information

You can seek further information for applying for this position, by sending your CV and motivation letter to George Biskos (e-mail: g.biskos@cyi.ac.cy; tel. 00357-22208618) or Bernard Dam (b.dam@tudelft.nl).