Job Announcement

The position
Research Fellowship in Synthetic, Coordinate Lanthanide Chemistry and/or Bio-organic Medicinal Chemistry

Job summary

The team
The Laboratory of Biomedical Imaging and Applied Optics, Department of Electrical and Computer Engineering, University of Cyprus, and EPOS-Iasis, Research & Development, Ltd, a Cyprus-based research-oriented SME invite qualified young researchers to express their interest for an 18-month joint trans-sectoral Research Fellowship in Synthetic Lanthanide Chemistry. The Biomedical Imaging and Applied Optics Laboratory concentrates on optical diagnostic technologies which provide complementary, microstructural and biochemical, information. These expertise include optical coherence tomography, nanoparticle enhanced Raman spectroscopy, fluorescence microscopy, and fluorescence endoscopy. The experimental activities of the laboratory are complemented by computational analysis and novel computational intelligence methodologies. These research activities are also supported by expertise and infrastructure for chemical synthesis, biological methods for in vitro cell experiments, as well as animal studies. The primary long term objective of EPOS-Iasis is to conduct research in the area of molecular medicine for the purpose of developing novel diagnostic and pharmaceutical products. The strategy of EPOS-IASIS is to partner with other flexible teams through the research and development phases and with well established pharmaceutical and biomedical engineering firms for the clinical testing and selling of our products. The Fellowship is within the context of a Cyprus Research Promotion Foundation-funded project, on “Multipotent theranostic metal-based scaffolds for molecular targeting of colorectal cancer”.

The successful candidate will be in charge of design, synthesis and characterization of scaffolds for multimodal and multifunctional imaging agents as well as of complexation of the bimetallic bimodal scaffolds to theranostic agents with tyrosine kinase inhibiting efficacies.

Job Description

The project brings together expertise in medical optics and optoelectronics, magnetics, coordinate Lanthanide chemistry, bio-organic synthesis and molecular oncology, aiming at introducing a break-through solution for the overall management of colorectal cancer and potentially other malignancies expressing the epidermal growth factor family of receptors (EGFR) with prototype metal-based functionalized compounds engaging cutting-edge synthetic and complexation approaches. The successful candidate is expected to work independently towards prototype metal-based functionalized compounds engaging cutting-edge synthetic and complexation approaches.
Requirements

The candidate is expected to be a highly-motivated individual with proven capability to work in a demanding multidisciplinary environment and eager to be actively engaged in joint training activities. Minimal requirements include,

- A PhD degree in Chemistry
- Essential research work in organic synthesis and coordinate lanthanide chemistry towards pharmaceutical products.
- Good command on molecular, structural and optical characterization techniques including 1D and 2D NMR, electrospray mass spectroscopy, time-resolved, steady state spectroscopic fluorimetry.
- Previous involvement in in silico modeling and/or magnetic characterisation with vibrational sample magnetometry will be considered favorably.

Employment Terms:

This position is on a contract basis for a period of eighteen (18) months. The monthly salary will be €2500. Employee contributions to social security etc. will be covered by the gross salary of the employee. There is no provision for 13th salary or medical and pharmaceutical insurance.

Interested applicants are invited to submit their application in two copies, including a detailed curriculum vitae in Greek and/or in English, a description of their academic and research experiences, copies of 3 representative publications and the names and addresses of at least three researchers or University Professors from whom references may be requested. Applications which will not contain two copies of the documents WILL NOT BE CONSIDERED.

For more information, please contact Dr. Constantinos Pitris, phone: 22892297, e-mail: cpitris@ucy.ac.cy.

All application material must be submitted to:

Human Resources Service  
University of Cyprus  
Council/Senate Anastasios G Leventis Building  
P.O. Box 20537  
1678 Nicosia, Cyprus

by Friday, 5th of April 2013, 2:00 p.m., by hand. Alternatively, applications can be send by post, but will only be considered valid provided that the post-office stamp date indicated on the envelope does not exceed the 5th of April 2013, and that it reaches the Human Resources Service by the 11th of April 2013, the latest. The sole responsibility will be upon the interested applicant.