Fellowship Reference: Chel_PD1

Main research field: Chemistry

Sub-research field: Synthesis

Job summary:

REQUIMTE offers Post-Doc fellowships to undertake research which will be focused on the design and synthesis of multi-functionalized molecules to be of use in the field of Medicinal Chemistry. The molecules synthesized in our laboratory are labelled with different groups that allow its study using different spectroscopic methods such as fluorescence spectroscopy, electron paramagnetic resonance, nuclear magnetic resonance and microscopy. Applicants should hold a PhD degree in the area of expertise and a good publication record.

Job description:

The work to be developed is the design and synthesis of multi-functionalized molecules to be of use in the field of Medicinal Chemistry. We are seeking highly motivated individuals with proven experience (at a PhD level) in any of these areas and that can contribute to enhance and complement our research interests.

The candidate must have experience as researcher in experience in organic and inorganic synthesis and in spectroscopic techniques for the characterization of new compounds (NMR, Mass Spectrometry, FTIR, UV/VIS and Fluorescence spectroscopy).

Fellowship Reference: Chel_PD2

Main research field: Chemistry

Sub-research field: Spectroscopic Methods

Job summary:

REQUIMTE offers Post-Doc Fellowships to undertake research which will be focused on the spectroscopic properties of drugs and intracellular probes synthesized in our laboratory as well as its characterization in organized media that mimic biological membranes; establishment of structure-activity relationships and mapping the distribution of the compounds in chosen target cells is also a priority. The molecules synthesized in our laboratory are labelled with different groups that allow its study using different spectroscopic methods such as fluorescence spectroscopy, electron paramagnetic resonance, nuclear magnetic resonance and microscopy. Applicants for a Post-Doc position should hold a PhD degree in the area of expertise and a good publication record.

Job description:

The multi-disciplinary nature of this work includes different scientific areas namely Physical Chemistry, Biophysics and Biochemistry. We are seeking highly motivated individuals with proven experience (at a PhD level) in any of these areas and that can contribute to enhance and complement our research interests.

The candidate must have experience as researcher in chemistry, physics or biophysics, and should have knowledge of advanced spectroscopic methods, namely EPR, NMR, Fluorescence, XRD and XAFS.

Fellowship Reference: Chel_PD3

Main research field: Chemistry

Sub-research field: Computational Methods

Job summary:

REQUIMTE offers Post-Doc fellowships to undertake research in the area of Molecular Modelling. Applicants should hold a PhD degree in the area of expertise and a good publication record.

Job description:

The chosen candidate will have to undertake research into the general area of Molecular Modelling, which will focus on the properties, computationally determined, of drugs, proteins and/or biological membranes. We are seeking highly motivated individuals with proven experience (at a PhD level) in this area that can contribute to enhance and complement our research interests.

Candidates should have research experience equivalent to a PhD in Chemistry or related areas. It should be noted that candidates with experience in areas related to structural biology will also be considered.

Fellowship Reference: Chel_PD4

Main research field: Microbiology

Sub research field: Antibacterial activity

Job summary:

REQUIMTE offers Post-doc fellowships to undertake research which will be focused at defining the potential of iron chelator compounds to reduce bacterial growth in an extended collection of Gram negative (*Enterobacteriaceae*, *Pseudomonas aeruginosa*, *Acinetobacter baumanii*) and Gram positive (*Enterococcus* spp.) microorganisms from different origins implicated in the dissemination of antibiotic resistance determinants. The research objectives address in particular the: i) effect of iron chelators in the inhibition of bacterial growth; and the ii) the potential of iron chelators to prevent adhesion and biofilm formation. Applicants should hold a PhD degree in the area of expertise and a good publication record.

Job description:

The multi-disciplinary nature of this work includes different scientific areas namely Molecular Biology, Biochemistry, and Microbiology. We are seeking highly motivated individuals with proven experience (at a PhD level) in any of these areas and that can contribute to enhance and complement our research interests.

The candidate must have experience as researcher in Bacteriology and should have knowledge of molecular methods, antibiotic susceptibility methods, biofilm-producing assays and bioinformatics tools.

Fellowship Reference: Chel_PD5

Main research field: Chemistry

Sub research field: Medicinal Chemistry

Job summary:

REQUIMTE offers Post-doc fellowships to undertake research which will be focused in the effects of synthetic compounds on the human neutrophils' pro-inflammatory behaviour, *in vitro*, namely the effects on the cellular enzymatic pathways involved in oxidative burst of neutrophils, the pro-inflammatory cellular signalling and release of cytokines, and neutrophil's chemotaxis and apoptosis. Applicants should hold a PhD degree in the area of expertise and a good publication record.

Job description:

The multi-disciplinary nature of this work includes different scientific areas namely Medicinal Chemistry and Biochemistry. We are seeking highly motivated individuals with proven experience (at a PhD level) in any of these areas and that can contribute to enhance and complement our research interests.

The candidate must have experience as researcher in Medicinal Chemistry and Biochemistry, and should have knowledge of advanced spectroscopic methods and *in vitro* methodologies with cells.

Fellowship Reference: Chel_PD6

Main research field: Pharmacology, Toxicology and Biochemistry

Sub research field: In vivo and in vitro studies

Job summary:

REQUIMTE offers Post-doc fellowships to undertake research which will be focused on in vivo and in vitro studies to evaluate the insulin-mimetic activities as well as safety profile of newly synthesised compounds. Applicants should hold a PhD degree in the area of expertise and a good publication record.

Job descriptions:

The multi-disciplinary nature of this work includes different scientific areas namely Pharmacology, Toxicology and Biochemistry. We are seeking highly motivated individuals with proven experience in any of these areas and that can contribute to enhance and complement our research interests.

The candidate must have, at least, two years experience as researcher in Pharmacology, Toxicology and Biochemistry, and should have knowledge on in vivo and in vitro experiments.

The candidate is expected to design experiments, write laboratory protocols and procedures, work with collaborators, prepare draft manuscripts and grant applications, and delivering oral presentations. Other responsibilities include the training and day to day supervision of other members of the research group, general management of a shared laboratory and participation in institutional activities. It is also expected a fast and profitable integration in current research projects. Work will be conducted in an excellent environment with state-of-the-art facilities.