



Date of publication of the job offer: 14/09/2017

Job title: Postdoctoral Researcher on the PharmacoInformatics field

Job description

A postdoctoral position is available for a senior postdoc researcher at the PharmacoInformatics (PhI) group led by Manuel Pastor at GRIB (IMIM-UPF) in Barcelona. The candidate will be in charge of carrying out research tasks in the areas of **in silico toxicology**.

She/he will be given responsibilities in research projects involving the application of in silico toxicity methods in diverse industrial areas (pharmaceutical, consumer chemicals, cosmetics, etc.). These projects will require the systematic application of state-of-the-art computational methods as well as their improvement or adaptation to meet the needs of industrial end-users. The candidate will have the opportunity to collaborate with multiple partners of an international consortium involving some of the best toxicity experts in Europe, multinational industries in the area of pharmaceutical, cosmetic and consumer chemicals as well as representatives of regulatory bodies.

The PhI group lead by Manuel Pastor is a multidisciplinary team with strong experience in the development of novel computational methods and its application in the drug safety areas. Some relevant achievements in this areas include: i) the development methods for robust applicability domain and reliability indexes in the prediction of toxicological endpoints, ii) development of eTOXlab, a flexible framework for the implementation of prediction systems, iii) development of multiscale prediction systems for drug-induced QT elongation, iv) participation in the European projects eTOX, Open PHACTS, iPiE, EU-ToxRisk and TransQST. A description of the group and the most recent publications can be accessed at <http://phi.upf.edu>

Project and Institution that finance the contract

eTRANSafe - PR02717 - H2020-JTI-IMI2-2016- eTRANSafe M.PASTOR

Official number reference



Information on the minimum requirements

Desired skills and expertise:

- University degree in Informatics, Biology, Biomedical Sciences, Bioinformatics or related areas.
- A PhD on Computational Chemistry, Chemo-/PharmacoInformatics or a related subject.
- Experience of at least two years in research projects involving computational methods, preferably in industrial environments (pharmaceutical, consumer chemicals or cosmetic).
- Fluent in English, with excellent written and oral communication skills.
- Professional autonomy.
- Ability to integrate in a highly multidisciplinary team.

We will value:

- Programming experience on Python and/or R, including common libraries and packages as numpy, scipy, matplotlib, Bioconductor, etc.
- Experience in the application of statistic, chemometrics and machine learning methods (PCA, PLS, RF, SVM).
- Experience with chemical formats like SMILES, SDFfile, InChI. Manipulation of chemical structures using RDKit or similar toolkits will be highly valued asset.

Benefits of the opening

Temporary contract (2 months) with possibility of extension, Full Time contract. Annual Gross salary 35.000 aprox

Information on the application process Please send a CV and a letter of interest by email to carina.oliver@upf.edu

Deadline to submit applications – Sept 30th 2017

Contact carina.oliver@upf.edu