

Date of publication of the job offer: October 23rd 2020

Job Offer: Position for a PhD student to carry out research in the field of in silico chemical safety assessment at the Phi Group at the GRIB.

Job Description:

A position is available for a motivated PhD student to carry out research in the field of in silico chemical safety assessment, at the Pharmacoinformatics (Phi) group led by Manuel Pastor at GRIB (IMIM-UPF) in Barcelona. The candidate will be in charge of **developing, applying and validating new predictive modeling methods**, integrated in a team of scientist and international experts from industrial and academic institutions, in the context of European projects in the areas of in silico toxicology.

General description: She/he will participate in the methodological development of new machine learning methodologies applied to the prediction of biological endpoints. The work will be carried out tightly integrated in a team of young scientist, collaborating to produce state-of-the-art scientific software and methodologies, in research projects funded by the European Union. 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 pharmaceutical, cosmetic and consumer chemicals.

The Phi group lead by Manuel Pastor is a multidisciplinary team with strong experience in the development of novel computational methods and their application in the drug safety areas. Some relevant achievements in these areas include: i) the development of 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 cardiotoxicity, 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:

The work is supported by grant: H2020-JTI-IMI2-2016- eTRANSafe M.PASTOR

Skills and Experience

Desired skills and expertise:

- University degree in Biology, Pharmacy, Medicine or related areas.
- Training in machine learning, data sciences or statistics
- Good English level (B2 minimum).

We will value:

- Experience in programming (Python, R).
- Experience in SQL databases.

- Experience in pharmacology and pharmacokinetics.
- Professional experience in any of the mentioned skills.

Benefits of the opening: We offer a full-time position for 12 months with the possibility of extension. Annual gross salary of about 35.000€ (conditions and final salary to be negotiated).

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