INTERNATIONAL CALL IC48_26

JOB TITLE

PhD Position in Bioinformatics (QSAR, PBPK Modeling, OMICS and Machine learning).

Researcher career profile (R1)

JOB DESCRIPTION

Southern Catalonia Biomedical Research Institute (IRBCatSud) is an institution that integrates research in the field of biomedicine in the "Camp de Tarragona" and the "Terres de l'Ebre". The IISPV is the instrument that the university hospitals of both health regions have been endowed with (Joan XXIII University Hospital of Tarragona, Verge de la Cinta Hospital of Tortosa, Sant Joan de Reus University Hospital, Institut Pere Mata University Hospital of Reus) and Rovira and Virgili University, in order to bring together and manage biomedical research and innovation in the territory.

This position offers an exciting opportunity to work in a multidisciplinary environment focused on translational health research. Successful candidates will join a dynamic team of researchers in Insilico vida lab which is part of Tecnatox group. The lab performs cutting edge research about bioinformatics, predictive modeling and regulatory science. The selected candidate will get the opportunity to work in the following European research projects:

- Merging scientific evidence with regulatory practices and leveraging identification of endocrine disruptors using new approach methodologies Project (MERLON) which has been funded by the European Union under Grant Agreement No 101137411.

Merlon

Funded by the European Union

Number of available positions: 1

The selected candidate will perform the following tasks:

- Analyze large-scale biological, and OMICS datasets.
- Implement machine learning algorithms on PBPK models and OMICS datasets to train the model.
- Help with PBPK and AOP ontologies development
- Develop and apply QSAR models to predict biological activities and toxicological endpoints.

CANDIDATE PROFILE & REQUIREMENTS

- MSc in bioinformatics, pharmacy, computational biology, data science or related field.
- Strong programming skills in R/python or other programming language.
- Core knowledge and proven experience in one of the following fields: omics data analysis (metabolomics, transcriptomics, proteomics), machine learning approaches (Scikit-learn, XGboost, tensorflow),
- Ability to analyse complex datasets.
- Must have hands-on experience working with R or Python.

IT WILL BE VALUED

- Knowledge of toxicology, toxicokinetic or systems biology.
- Familiarity with modeling tools and programming languages.
- Good communication skills in English.
- Ability to identify and solve problems

LABOUR CONDITIONS

- Full-time position
- Workplace: IRBCatSud locations (Reus/Tarragona)
- Contract: Indefinite of scientific-technical activities linked to MERLON under Grant Agreement No 101137411 (Approximately 1 year, with further annual extension
- Gross annual salary: 1.300 – 1.800€ per month
- Starting date: January 2027

SELECTION PROCEDURE

- Selection of CV's. Suitable and unsuitable CV's will be identified according to the requirements. Applicants who do not meet the requirements indicated in the candidate profile and requirements will not pass to the next phase.
- Evaluation of the CV. Evaluation of the CVs up to a maximum score of 40 points.
- Cover Letter. Attach to the resume a cover letter with a maximum length of 2500 characters with spaces. With a maximum score of 20 points.

  To access the interview phase it is necessary to have obtained a minimum score of 40 points in the sum of scores of the evaluation of the curriculum and cover letter

- Personal interview. With a maximum score of 40 points.

Items	**40**
Attitude	5
Fit in the work place	10
Experience, developed functions/skills	20
Teamwork	5

The selected person must have obtained a minimum score of 70 points in the sum of scores from the assessment of all phases of the selection procedure.

SELECTION COMMITTEE

- President: Dr. Vikas Kumar (Team Leader)
- Chair 1: Dr. Montserat Mari Marcos (Senior Researcher and administrative staff)
- Chair 2: Dr. Deepika Deepika (Postdoctoral Researcher)

SUBSTITUTES:

- President: Dr. Monica Bulló Bonet (Professor)
- Chair 1: Dr. Joaquim Rovira (Ass. Professor)
- Chair 2: Dr. Kanchan Bharti (Postdoctoral Researcher)

CANDIDATURES

- The CV must include the DNI/NIE number or another personal identity document number.
- Send the CV and the Cover Letter through the form that you will find on the bottom of the offer page **https://www.irbcatsud.cat/treballa-amb-nosaltres/**

For any questions or queries: recruitment@irbcatsud.cat

DEADLINE FOR RECEIPT OF CV 02/12/2026

COMMUNICATIONS

The IRBCatSud will notify the candidates of the results of the different phases of the selection process through its website.

HRS4R Research in HR Excellence

The IRBCatSud has the European accreditation The Human Resources Strategy for Researchers (HRS4R), complies with the general principles of the European Charter for Researchers and the Code of Conduct for the recruitment of researchers.

The IRBCatSud has an internal recruitment policy that follows the Open, Transparent and Merit-based Recruitment (OTM-R) policies. More information about the HRS4R policies implemented at the IISPV is available on the following website: https://www.irbcatsud.cat/hrs4r-hr-excellenceresearch/

The IRBCatSud will guarantee the right to equal opportunities and treatment, as well as the real and effective exercise of rights by people with disabilities under equal conditions with respect to other citizens, through the promotion of personal autonomy, universal accessibility, access to employment, inclusion in the community and independent living and the eradication of any form of discrimination, in accordance with articles 9.2, 10, 14 and 49 of the Spanish Constitution and the International Convention on the Rights of Persons with Disabilities and international treaties and agreements ratified by Spain.

In the event of a tie, priority will be given to hiring the person with a disability.

In the event of a tie between people of different genders, the person of the least represented gender in the work group/department/service in which he joins will be hired.

CHANGE CONTROL		
Date	**Review**	**Modifications**
03-07-24	00	Document creation