INTERNATIONAL CALL IC67_22

JOB TITLE

Predoctoral Research fellow for the PRODUCTE 00112 project.

Researcher career profile (R1)

JOB DESCRIPTION

The Metabolomics Interdisciplinary Lab (MiL@b) belongs to the Institut d'Investigació Sanitària Pere Virgili (IISPV) and is functionally attached to the Sant Joan XXIII Hospital.

The research group works in the field of metabolomics, and has access to state-of-the-art analytical equipment in mass spectrometry and nuclear magnetic resonance, which allow large-scale analysis of biological samples. The MiL@b is a multidisciplinary research group aimed at the scientific and technological advance of metabolomics, particularly focused on biomedical data analysis, software engineering and analytical chemistry.
The research group is developing new and open-access metabolomic data processing algorithms and compound identification strategies, using multivariate analysis tools, machine learning approaches, and publicly available and commercial databases. The algorithms are mainly intended to improve data analysis by using the leading analytical platforms in metabolomics: GC-MS, LC-MS, MALDI-MS and HR-NMR.

Number of available positions: 1

The selected candidate will perform the following tasks:

- Improvement and adaptation of the software HERMES (https://doi.org/10.1038/s41592-021-01307-z) to process quantitative metabolomics and lipidomics LC-MS/MS metabolomics data.
- Migration of the resulting software to a cloud-based infrastructure called DATOMA.
- Executing and testing HERMES software in the cloud.
- Dissemination and communication of the results: writing reports and scientic articles.
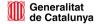
CANDIDATE PROFILE

- Degree in biotecnology, biochemistry, bioinformatics or biomedical engineering.
- The researcher must be admitted in a Bioinformatics doctoral programme.
- Additional training related to the field of metabolomics and other omics tecnologies.

REQUIREMENTS

- Competence and experience with programming languages (R, Python languages…)
- Minimun 2 years demonstrable experience in the field of metabolomics, especially, or in mass spectrometry data processing.

IT WILL BE VALUED

- Additional training in: analytical chemistry, biochemistry and metabolism.
- Motivation, creativity, initiative and proactive attitude.
- Ability to learn, flexibility and adaptability.
- Commitment to quality, to optimizing resources and to achieving results.
- Previous experience in similar projects.
- Ability to identify and solve problems.
- Teamworking, ability to work independently, to organize, kindness, dynamism, versatility, rigour, responsability and confidentiality
- Carry out research under supervision
- Have the ambition to develop knowledge of research methodologies and discipline
- Have demonstrated a good understanding of a field of study
- Have demonstrated the ability to produce data under supervision
- Be capable of critical analysis, evaluation and synthesis of new and complex ideas
- Be able to explain the outcome of research (and value thereof) to research colleagues

- Develops integrated language, communication and environment skills, especially in an international context

LABOUR CONDITIONS

- Full-time position (40 h)
- Workplace: Hospital Universitari Sant Joan de Reus
- Contract: Temporary. Predoctoral contract, 1 year.
- Gross annual salary: 16.971,61 € (according to the salary scales of The Statute of Research Staff in Training 2022)
- Starting date: December 2022

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 25 points.
- Cover Letter. Attach to the resume a cover letter with a maximum length of 2500 characters with spaces. With a maximum score of 25 points.

To access the interview phase it is necessary to have obtained a minimum score of 30 points in the sum of scores of the evaluation of the curriculum and cover letter

- Personal interview. With a maximum score of 50 points.

Items	50
Attitude	10
Fit in the work place	15
Experience, developed functions/skills	15
Teamwork	10

SELECTION COMMITTEE

- President: Xavier Correig. (Group Leader)
- Chair 1: Oscar Yanes. (Principal Investigator)
- Chair 2: Maria Vinaixa. (Research Support)

   SUBSTITUTES:

- President: Raquel Cumeras. (Postdoctoral Researcher)
- Chair 1: Noelia Ramírez. (Postdoctoral Researcher)
- Chair 2: Jordi Capellades. (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 IISPV website. https://www.iispv.cat/oferta-de-treball/ic67_22-predoctoral-research-fellow-for-the-producte-00112-project-%ef%bf%bc/

   For any questions or queries: recruitment@iispv.cat

DEADLINE FOR RECEIPT OF CV 22/11/2022

COMMUNICATIONS

The IISPV will inform the candidates if they have been admitted or excluded to access the interview.