



WE ARE LOOKING FOR...

**AI algorithms Developer for the Clinical Neurosciences
Research Group**

What do we offer?

Research group	Clinical Neurosciences
Research line	Identification of injury and recovery: biomarkers
Type of contract	Temporary NextGenerationEU Fund
Beginning	Immediate
Duration	18 months
Day	37.5 hours – Full time
Category	Superior Research Technician C2
Remuneration	€28,513.54 gross/year

The Institute

The Biomedical Research Institute of Lleida, Dr. Pifarré Foundation (IRBLleida) was created with the aim of creating synergies between basic, clinical and epidemiological research, making biomedical research a key driver to improve current clinical practice. IRBLleida covers a chain of translational research, from basic research, aimed at understanding the physiological and pathological mechanisms of the human body, to research that studies the behavior of diseases in large population groups.

IRBLleida was founded in 2004 through a collaboration agreement between the University of Lleida (UdL) and the Catalan health system. IRBLleida integrates research groups from the

faculties of Medicine and Nursing and Physiotherapy of the UdL. On the other hand, we incorporate research groups of:

1. The Catalan Institute of Health ([ICS](#)) both in the hospital field (Arnau de Vilanova University Hospital-HUAV) and [in primary care in Lleida](#) and the [Alt Pirineu-Aran Health Region](#).
2. The healthcare provider [Gestió de Serveis Sanitaris \(GSS; Santa Maria-HUSM University Hospital, Pallars Regional Hospital and Mental Health](#), among others).



IRBLleida has been a CERCA institute since 2013, and consequently it is organized according to a model of good governance and operation that guarantees efficiency, flexibility of management, recruitment and promotion of talent, strategic planning and executive capacity.



In addition, it is one of the 34 Spanish Health Research Institutes ([IIS](#)) recognised by [the Carlos III Health Institute](#) and the Government of Catalonia, as established in Law 16/2003, of 28 May, on the cohesion and quality of the national health system.



In December 2014, the Institute for Research in Biomedicine of Lleida received the '[HR Excellence in Research](#)' award from the European Commission. This is a recognition of the Institute's commitment to develop a human resources strategy for researchers, designed to align practices and procedures with the principles of the [European Charter for Researchers](#) and the [Code of Conduct](#) for the recruitment of researchers (Charter and Code).

Check out our [recruitment policy](#).

Professional profile of the person hired

Superior Research Technician with Master's level

Requirements (those candidacies that do not meet this point will be excluded)

- Bachelor's degree in Computer Engineering, Systems Engineering, Computer Science or related areas.
- Master's degree in *Computer Science* or related

These requirements must be met at the beginning of the contract.

Tasks to be carried out

The selected person will join the research line *Injury Identification and Recovery: Biomarkers* within the Clinical Neurosciences Group to carry out tasks related to the *PReDICT project: Pediatric stroke Rare Disorders: Integrative Diagnosis and Treatment using Multi-Omics and Deep Learning (PMPER24/00021)* and will carry out the following tasks:

- ✓ Design, develop and implement artificial intelligence solutions focused on image analysis and the handling of large volumes of data.
- ✓ Optimize AI and machine learning models to improve accuracy, efficiency, and scalability.
- ✓ Collaborate with interdisciplinary teams to translate functional requirements into innovative technical solutions.
- ✓ Analyze and process data using advanced AI tools to generate insights.
- ✓ Research and stay up-to-date with the latest trends and advancements in artificial intelligence, computer vision, and big data handling.

This contract is subsidised by the Carlos III Health Institute (ISCIII) under NextGenerationEU Funds, which finance the actions of the Recovery and Resilience Mechanism (RRF) - PMPER24/00021.



Desirable but not required/ Nice to have

Knowledge

- ✓ Knowledge of OpenCV, NumPy and Pandas.
- ✓ Intermediate or high English (reading of technical documentation and collaboration with international teams).
- ✓ Basic understanding of machine learning and computer vision algorithms.
- ✓ Native or fluent Catalan and Spanish language.

Experience

- ✓ Academic experience, personal projects, or internships related to AI or software development.
- ✓ Experience in the handling of medical images, especially in neuroimaging and its storage (DICOM, Nifti,... formats).
- ✓ Experience working with large data sets and analysis tools.

Competences

- ✓ Ability to quickly learn new technologies and adapt to challenging problems.
- ✓ Motivation for research and continuous learning in artificial intelligence.

- ✓ Ability to solve complex problems creatively
- ✓ Proactive attitude and orientation to teamwork

Contract Specifications

- ✓ Temporary NextGenerationEU Fund.
- ✓ The amount granted for the financing of personnel expenses is €57,000 during the term of the project.

This amount will cover the gross annual salary of the person hired and the expenses of the employer's Social Security contribution.

- ✓ Finançament de l'activitat: PP10943 – *PreDICT: Pediatric stroke Rare Disorders: Integrative Diagnosis and Treatment using Multi-Omics and Deep Learning*. **Finançat per el Instituto de Salud Carlos III (ISCIII), i el Mecanismo de Recuperación y Resiliencia de la Unión europea - PMPER24/00021.**
- ✓ Duration of the contract: **In the work programme of the project it is foreseen that personnel costs will be developed for 18 months.**
- ✓ If there are modifications in the work programme and/or budget of the project, the possibility of modifying the period will be assessed (the duration of the contract is linked to the specific financing of the project/agreement).

Why work at IRBLleida?



We offer a highly stimulating environment with state-of-the-art infrastructures.



We offer complementary training for all profiles. To view our training and development portfolio, please visit our website in the [training section](#).



We offer and promote a diverse and inclusive environment and welcome applicants regardless of age, disability, gender, nationality, race, religion or sexual orientation.



Work-life balance and the possibility of benefiting from flexible working hours. In addition, as a result of different company agreements, the following improvements are recognised:

- Paid leave to go to the doctor for reasons of one's own health.
- Paid leave to accompany a first-degree family member under 18 years of age, over 70 years of age or with a first-degree disability to the doctor.
- Public holidays that coincide with Saturday or Sunday are moved to the Monday immediately following.
- A special 6-hour day is established on Holy Thursday, April 23, June 23, December 24, December 31 and January 5.

Documents and application deadline:

Applications must be accompanied by:

- Cover letter.
- Resume.

The deadline for submission will end on May 2, 2025 at 2:00 p.m.

Interested people can apply for the offer by filling in the [form](#) and sending your CV and cover letter, indicating the name of the offer to which you are applying and the reference 014-25.

Selection calendar for the process reference 014-25

Minimum 15 days	Publication and dissemination of the offer: IRBLeida website, Euraxess (for research staff), "REGIC" portal, social networks, other employment websites depending on the position offered.
Maximum 2 working days	Sending CVs to the Selection Committee
	Holding of the Selection Committee
Maximum 5 working days	<ul style="list-style-type: none"> - Interview with pre-selected candidates - Assessment and Minutes of award of the Selection Committee
Maximum 5 working days	Carrying out the administrative procedures necessary to formalise the employment contract
Approximate start of the contract	Immediate

Express selection process

In those cases in which a worker has to be replaced urgently, for example, to cover a sick leave, because for scientific reasons the incorporation must take place on a specific day, because it is provided for in a resolution, etc., an express selection procedure may be followed.

This selection process will follow the same procedure as the ordinary one, but the duration of all phases of the process will be reduced, mainly the phase of publication of the job offer and submission of applications and the phase of evaluation and selection of personnel.

Regulation and regulatory principles

The hiring will be carried out in accordance with the provisions **of Article 15 of Royal Legislative Decree 1/1995, of 24 March**, approving the text of the Workers' Statute Act, in accordance with the provisions **of Article 2 of Royal Decree 2720/98, of 18 December (B.O.E. of 8 January 1999), Law 12/2001, of 9 July (B.O.E. of 10 July)** and concordant provisions.

The principle of equality between men and women is taken into account, in accordance with **Organic Law 3/2007, of 22 March**, for the effective equality of women and men. IRBLleida has a Plan for Equal Opportunities for Men and Women and a Protocol for the Prevention and Eradication of Sexual Harassment.

The right to equal opportunities and treatment is taken into account, as well as the real and effective exercise of rights by people with disabilities on equal terms with other citizens, through the promotion of personal autonomy, universal accessibility, access to jobs, 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 the international treaties and agreements ratified by Spain, in accordance with the provisions of **Royal Legislative Decree 1/2013, of 29 November**.

IRBLleida is committed to the principles of merit-based recruitment and transparency (OTM-R) in accordance with the requirements of the HRS4R seal

ANNEX I. MEMBERS OF THE SELECTION COMMITTEE

President	Ms. Eva López, Manager
Vocal	Dr. Francisco Purroy, Researcher at IRBLeida
	Dr. Glòria Arqué, Researcher at IRBLeida
Secretary	Ms. Elena Moscatel, Head of the Department of People and Legal

ANNEX II. SCALE OF MERITS

Academic curriculum and complementary training	40 points
• Knowledge of OpenCV, NumPy and Pandas	10 points
• Intermediate or high English (reading of technical documentation and collaboration with international teams)	10 points
• Basic understanding of machine learning and computer vision algorithms	10 points
• Native or fluent Catalan and Spanish language	10 points
Accredited professional experience	40 points
• Academic experience, personal projects, or internships related to AI or software development	15 points
• Experience in the handling of medical images, especially in neuroimaging and its storage (DICOM, Nifti,... formats)	15 points
• Experience in managing large data sets and analysis tools	10 points
Competency test or interview	20 points
• Criteria subject to value judgment will be assessed according to the interview carried out	20 points
Maximum score	100 points

Applications that do not exceed 50% of the maximum score will be rejected

Data protection information clause

Data controller

Identity: **INSTITUT DE RECERCA BIOMÈDICA DE LLEIDA**

CIF: G25314394

Postal address: Av. Alcalde Rovira Roure nº80, 25198, Lleida

Email: protecciodedades@irbllleida.cat

Purpose of data processing and storage

AT THE INSTITUTE FOR RESEARCH IN BIOMEDICINE OF LLEIDA (hereinafter referred to as **IRB LLEIDA**) we process the information you provide us as a data subject, in order to manage the processing of your CV and application.

The data obtained will be kept for a period of up to 12 months, to cover future applications if they are not updated before or until there is opposition to their processing by the interested party.

Legitimacy for the processing of data

The legal basis for the processing of your data is the consent of the interested party when contacting **the INSTITUTE FOR RESEARCH IN BIOMEDICINE OF LLEIDA**.

Recipients of your data

Your data will be communicated to third parties and collaborators related to the organization. Apart from these entities, your data will not be communicated to third parties.

Rights of the interested parties

The owners of the data processed by **IRB LLEIDA** have the right at any time to access their data, rectify them, oppose their processing or delete them if they believe that they are no longer necessary for the purposes for which they were collected. In addition, if you wish, you can request the portability of your data and limitation of its processing. In the latter case, we will only keep them for the exercise or defence of claims. You may also revoke the consent granted at any time.

To exercise these rights, you can contact **IRB LLEIDA** through the email protecciodedades@irbllleida.cat. Likewise, if you consider your rights to have been violated, you may file a complaint with the Catalan Data Protection Authority.