



The Vall d'Hebron Research Institute (VHIR) is a public sector institution that promotes and develops the research, innovation and biosanitary teaching of the Vall d'Hebron University Hospital. Through the excellence of our research, we identify and apply new solutions to the health problems of society and we contribute to spread them around the world.



In April 2015, the **Vall d'Hebron Research Institute (VHIR)** obtained the recognition of the European Commission **HR Excellence**. This recognition proves that VHIR endorses the general principles of **the European Charter for Researchers and a Code of Conduct for the Recruitment of Researchers (Charter & Code)**. Thus, there are no restrictions of gender, national origin, race, religion, sexual orientation or age and **candidates with disabilities are strongly encouraged to apply.**

Pre-doctoral Researcher. “Predoctoral Training Contracts in Health Research” Digestive Transplantation Research Group

Soon, the Carlos III Institute will publish its grant program for the year 2021. A candidate for the PFIS grant is requested to join the Digestive Transplantation Research Group. The pre-doctoral researcher will work in an interdisciplinary biomedical environment in the project: "AN ALGORITHM QUANTIFICATION OF LIVER GRAFT STEATOSIS USING MACHINE AND COLOR IMAGE PROCESSING", funded by the Instituto de Salud Carlos III. More information about our group can be here:

<http://www.vhir.org/portal1/grup-projectes.asp?s=recerca&contentid=187005&idrefer=187002>

JOB DESCRIPTION

Education and qualifications:

Required:

- Degree in Mathematical/Data Science Engineering or related.
- A cut-off mark of 7.5, both in the degree and the master.
- Experience in machine learning and deep learning techniques, data engineering, data visualization, and problem solving.
- Proficiency in Python programming.

Exclusion: Candidates with PhD degree

Experience and knowledge:

Desired:

- Programming skills: Experience with the following ML / DL libraries: sklearn, scipy, tensorflow, pytorch, pandas, Java, C / C# / C++ and SQL.
- Experience in image analysis
- Strong sense of responsibility, initiative, self-motivation and social skills as key personal abilities.
- Ability to work independently and in a team.
- Good level of English.

Main responsibilities and duties:

- Assisting in different projects related to improve research on liver donation.
- Developing deep learning and image analysis algorithms.
- General duties in the LiverColor project and participation to complement other research projects.
- Manuscript and grant writing.

Labour conditions:

- Full-time position: (40h/week).
- Start: Second semester 2021
- Length of the contract: 4 years
- Orientative gross annual salary based on 2020 PFIS
20.600 € per year

What can we offer?

- Personal training opportunities.
- Flexible working hours.
- Teambuilding events.

How to apply:

Applicants should submit a full Curriculum Vitae and a cover letter with the reference CV's #Tecnicec to the following email addresses: ibilbao@vhebron.net, concepcion.gomez@vhebron.net, gemma.piella@upf.edu, and (seleccio@vhir.org) .