Fundació IMIM

DATA SCIENTIST/STATISTICIAN
FOR DISEASE PROGNOSIS PREDICTION
POSTDOCTORAL POSITION
(Ref. 2220 - MONFORT)

The Cellular Research Group on Inflammation and Cartilage led by Dr. Jordi Monfort has a strong multidisciplinary nature, in order to carry out quality translational research. The group's research focuses on rheumatic diseases, mainly immune-mediated diseases (such as systemic lupus, rheumatoid arthritis or scleroderma), osteoarthritis and fibromyalgia. Its task is the holistic study of patients and their pathologies with the main objective of describe predictive models that improve the monitoring and treatment of patients. This tasting is carried out through competitive grants granted mainly by the Ministry of Health, the Ministry of Competitiveness and Innovation, the AGAUR and the Fundació La Marató de TV3.

The group is part of the research net of the Hospital del Mar Medical Research Institute Foundation (FIMIM) located in the Barcelona Biomedical Research Park, forming part of an international community of resident scientists with access to a wide range of cutting-edge scientific and technical services.

More information at https://www.imim.es/programesrecerca/rct/recercacel.html

WE OFFER:

- Full-time indefinite postdoctoral contract, starting on the first trimester of 2023, with a gross salary in the range of 31,000-36,000 €/year, according to experience and qualifications provided.
- Scientific career
- Flexibility measures, contemplated in the labour regulations of the FIMIM (teleworking, flexible working hours...)

Candidate person requirements:

- ✓ Students graduated in Statistics, Mathematics, Physics, Bioinformatician, Biology, Biotechnology, Biomedical engineering or related
- ✓ Having completed a PhD in Math, Statistics, bioinformatics or similar.
- ✓ Experience in prediction models and / or data mining.
- ✓ Proactive attitude to solve to solve problems and develop new ideas.
- ✓ Ability to pay attention to detail, teamwork and a high level of empathy.

Project summary:

- Our research focuses on the identification of patients' characteristics (at molecular, cellular and clinical level) that can predict the efficacy of a treatment or the prognosis of the disease, as a first step for personalized medicine. The group works both with data from its own cohorts as well as from national and international cohorts.

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- The candidate will participate in achieving the objectives set in the projects currently ongoing. They are focused on two rheumatic pathologies: osteoarthritis (the most prevalent rheumatic disease) and systemic sclerosis (a rare disease with a prevalence <5/10,000). The candidate will be involved in the development of machine learning and deep learning algorithms applied to the description of phenotypes of subgroups of patients, and in the design of prediction models applied to the progression of the diseases.
- The candidate will participate in the design, writing and execution of future projects.
- The candidate will direct and supervise the work carried out by students (master and thesis).

Those interested in this offer must apply via e-mail to ltio@imim.es indicating the job reference in the subject. The application must include:

- **A cover letter with a brief description of the scientific and academic achievements accomplished.**
- **A recent resume.**
- **Two letters of recommendation or 2 work/academic references (with full address, e-mail and work telephone number).**

Deadline for submitting CVs: 31/ 12/2022