

R1-Young BIOINFORMATICS Position. Topic Bioinformatics in RNA Biology in Iron Metabolism. Investigo position- Reference 2022-MS-03. One position.

Research Description

The *Universitat Internacional de Catalunya* (UIC) is a private, non-profit university that aims to provide a service to society through the implementation of teaching and research activities aimed at professional training and scientific, cultural and human education of the students.

Currently, the university covers eight faculties in addition to the Doctoral School. The academic programs offered by UIC Barcelona include a total of 20 undergraduate programs and more than 80 official master's degrees and post-graduate courses. Of its two campuses, the Sant Cugat campus houses the Faculty of Medicine and Health Sciences and the Faculty of Dentistry. It is located within the premises of the General Hospital of Catalonia. Practical experience, particularly on this campus, forms the basis of successful learning. This campus also houses the University Institute of Patients, the Institute of Superior Studies of Bioethics and the Bioengineering Institute of Technology; what makes it as an ideal environment that promulgates the success in education and research.

The Biomedicine Laboratory in the Department of Basic Sciences, where the laboratory of Dr. Mayka Sanchez is located, has an area of approximately 340 m² that holds the research groups of the Department of Basic Sciences of the Faculty of Medicine and Health Sciences. It is a fully equipped space for UIC Barcelona research groups to work on the different lines they develop. It counts with a microscopy room, tissue culture rooms, flow cytometer and equipment for PCR, qPCR and other molecular biology techniques. www.uic.es

Dra Mayka Sanchez's group, **Iron Metabolism: Regulation and Diseases** of the UIC, focuses on the study of hereditary haematological diseases and iron metabolism diseases with important scientific contributions in this field at the bioinformatics, basic as well as the translational level (Luscieti et al., Blood 2017; Engert, et al Haematol 2016; Joshi R, et al., Mol Genet Gen Med 2015, FalcoL, Hum. Mutat 2014, Athiyarath R et al. Brit J Haematol 2013, Falco L et al., Haematol 2013 ; Luscieti S, et al., OJRD 2013; Campillos M, et al NAR 2010).

We are looking for a young and highly motivated Bioinformatician to join our laboratory. We are located at the Basic Science department at the Universitat Internacional de Catalunya (UIC) same building as Hospital General de Catalunya, Sant Cugat del Vallés, Barcelona (Train FGC: Hospital General). Our group is supported by competitive grants including RETOS COLABORACION RTC2019-007074-1 ADVANCED_CDA and NANOANEMIA project PLEC2021-007727. <https://researchgroups.uic.es/ironmetabolism/>

We also have contacts with companies (BLOODGENETICS and WHOLE GENIX). Dr. M Sanchez is the co-founder of the innovative SME BLOODGENETICS SL (www.bloodgenetics.com)

Compulsory and minimum Requirements- PLEASE do not apply if you do not fulfil the minimum requisites

We are seeking candidates who have:

- Less than 30 year old person at the time of signing the contract
- To be registered as a job seeker in the Public Employment Service of Catalonia before starting the contract.
- A recent Master in Bioinformatics/Omics or CFGS in Bioinformatics

Other Requirements

- Good academic marks and high motivation for research.
- At least 1 years of work experience in BIOINFORMATICS with good programming skills (java, bash scripting, python, Perl, R), Knowledge in MySQL data base, object oriented programming.
- Good English level (internal seminars are in English)
- Excellent interpersonal skills and ability to work with other team members.
- Organized, hard-working person and proactive, self-motivated and enthusiastic.

Other Requirements that will be a PLUS

- Knowledge in RNA Computational Modelling, genetics, genomics data analysis.
- Publications in peer reviewed scientific journals.

Main Responsibilities

The selected person will work on the project ARETHA improving the SIRES web server for RNA pattern prediction. Main aim is to reach a publication of these improvements in a scientific journal called NAR nucleic acid research in a subsection dedicated to web servers. Other tasks will be to assist with next generation sequencing analysis (in panels and WES).

What we offer

- To work in an excellent environment.
- Contract of 2 years (initial period of 6 months of provision period)
- Salary according to experience (Salary range 20.000-25.000 euros/bruto year)
- Starting September -October 2022.

Evaluation process

- The post may remain vacant if the minimum requirements are not met.
- Selected candidates will be contacted in July 2022 for a personal interview.

For more information, please visit:

<https://researchgroups.uic.es/ironmetabolism/>

Deadline for applications

The call will be open until **15/07/2022**

How to apply

Interested applicants should send their CV, motivation letter and email address of three referees able to assess the scientific potential and previous performance to Dr. Mayka Sanchez msanchezfe@uic.es

PLEASE MENTION the REFERENCE Reference 2022-MS-03-Bioinformatics in the subject of the mail or your application may not reach the right person.