



Bioinformatics Laboratory IRCCS Casa Sollievo della Sofferenza

bioinformatics@css-mendel.it
<http://bioinformatics.css-mendel.it>



Data scientist in Computational Biology

Job Description

The bioinformatics Laboratory at IRCCS Casa Sollievo della Sofferenza - Mendel in Rome is looking for 1 data scientist with proven experience in biostatistics or machine learning/AI and data analysis of big data.

The candidate will be mainly in charge of developing applied research in computational biology, dealing with Next-Generation Sequencing (NGS) multi-omics profiles of rare/complex genetic diseases, innovative therapies, and regenerative medicine. S/he will be involved in the development of **MitImpact**, a collection of genomic, clinical, and functional annotations for all nucleotide changes that cause non-synonymous substitutions in human mitochondrial protein-coding genes; **APOGEE**, our machine learning tool for the putative pathogenicity prediction of mitochondrial mutations; and in groundbreaking research projects regarding, e.g., network biology, cancer research, SARS-CoV-2 neutralization.

The correct cultural background is in Bioinformatics, Computer Science, Engineering, Mathematics, Physics with solid statistical background, or Biostatistics.

Knowledge of R and Python to analyze and represent data is a golden plus. Good knowledge of Scientific English will be positively evaluated for this position and good presentation and teamwork skills.

A CV with one professional reference, details on educational background, and the statistical and/or bioinformatics and/or data analysis skills and experience should be sent by email for a preliminary selection to Tommaso Mazza, CSS-Mendel: t.mazza@css-mendel.it

Context

Casa Sollievo della Sofferenza is an Institute for hospitalization, care, and scientific research located in San Giovanni Rotondo, Italy. It integrates clinical assistance (with inpatient and outpatient facilities) and research. It has an affiliate institute, CSS-Mendel, located in Rome. It employs over 150 researchers who focus on genetic diseases, innovative therapies, and regenerative medicine between the two sites. The Center is equipped with state-of-the-art genomics technology and two dedicated high-performance computing clusters, a non-conventional workstation of GPUs, and short- and long-term storage. The bioinformatics laboratory comprises six members, each with his/her scientific skills and interests, making the whole work environment heterogeneous and stimulating (<http://bioinformatics.css-mendel.it>).

Applications

Candidates should send:

- a cover letter explaining the role they would like to undertake within the Center, even if it is not listed in this job adv, stating clearly why they would be a good fit to the proposed role, and what they would bring to the Center in terms of expertise, ideas, talent;



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- a CV including a list of publications;
- List of referees.

Start date

Immediate

Type of contract and duration

Co.Co.Pro. 1 year (renewable)

Funding Source

Institutional

Salary

23.000€ – 27000€ gross salary

Contact Person (Referent)

Tommaso Mazza (t.mazza@css-mendel.it)