

INTERNATIONAL CALL IC32_24

JOB TITLE

Genomics Data curator

JOB DESCRIPTION

We are seeking a bioinformaticians with expertise and interest in genomics data curation to perform data harmonisation and curation activities, data quality assurance and bioinformatics support. The selected candidate will coordinate tasks between the different research groups involved in the precision medicine national programme IMPaCT. The applicant will have the opportunity to learn many insights for genomics and transcriptomics data management and curation.

The project in which the candidate will be involved is a Pilot project for the implementation of a screening tool to improve the prevention, diagnosis, and treatment of patients with a neurodevelopmental psychiatric disorder: Using the 22q11.2 deletion syndrome (22q11.2DS) as a model.

This project is supported by the Network of Genomic Analysis Centers of IMPaCT-Genomic Medicine..

Number of available positions:1

The selected candidate will perform the following tasks:

- Data harmonisation activities in alignment with IMPaCT
- Establish a data dictionary of variables using suitable ontologies
- Support database development and maintenance (clinical and genomic data)
- Coordinate data collection, quality checks and generation of metadata
- Support in genomic analysis plans and curation of results
- Presentations internally and to external stakeholders to update progress and status of the curation activities
- Participate in weekly EGA meetings, forming part of the data curation team

About the institutes

The Pere Virgili Institute for Health Research (IISPV) is an institution that integrates research in the field of biomedicine in the “Camp de Tarragona” and the “Terres de l'Ebre”. The IISPV is the instrument that the university hospitals of both health regions have been endowed with (Joan XXIII University Hospital of Tarragona, Verge de la Cinta Hospital of Tortosa, Sant Joan de Reus University Hospital, Institut Pere Mata University Hospital of Reus) and Rovira and Virgili University, in order to bring together and manage biomedical research and innovation in the territory.

Despite being formally hired at the IISPV, the candidate will work at the Centre for genomic regulation in Barcelona. The Centre for Genomic Regulation (CRG) is an international biomedical research institute of excellence, based in Barcelona, Spain, with more than 400 scientists from 44 countries. The CRG is composed of an interdisciplinary, motivated and creative scientific team which is supported both by a flexible and efficient administration and by high-end and innovative technologies.

About the EGA

The EGA (European Genome-Phenome Archive, www.ega-archive.org) is a resource for permanent secure archiving and sharing of all types of potentially identifiable bio-molecular, phenotypic, and clinical data resulting from biomedical research projects. We host more than 18 petabytes of data, that includes more than 3700 studies and 8600 datasets. The EGA, co-managed by the CRG (www.crg.eu) and the European Bioinformatics Institute (EBI, www.ebi.ac.uk), is an active partner in numerous international and national projects and contributes to establishing international standards in genomics and health research. Currently, the EGA is involved in many precision medicine initiatives and projects and looks forward to providing advanced services for that research community. The EGA team at CRG is a diverse group (currently 20 people and steadily growing) composed of bioinformaticians, developers and scientists from various backgrounds. The EGA is a Global Alliance for Genomics and Health (GA4GH, www.ga4gh.org) driver project, an ELIXIR (www.elixir-europe.org) Core Data Resource and Recommended Deposition Repository, as well as an ELIXIR Spain (www.inab.es) service. In Barcelona, the EGA is based at the prestigious Barcelona Biomedical Research Park (PRBB, www.prbb.org) and receives support from the Barcelona Supercomputing Center (BSC, www.bsc.es) and the Universitat Pompeu Fabra (UPF, www.upf.edu).

CANDIDATE PROFILE & REQUIREMENTS

- M.S. in Biology, Biomedicine, or equivalent degree with combined education and/or experience in Bioinformatics or Data Science
- Good understanding of clinical concepts and genomics
- Motivation, creativity, initiative and proactive attitude
- Experience with high throughput genomic and clinical data curation, harmonization, quality control checks and analysis
- Experience with harmonization and curation of metadata
- Experience with health data standards (OMOP, FHIR...)
- Experience with the use of ontologies/vocabularies (LOINC, SNOMED...)
- Minimum 1 year demonstrable experience
- Effective written and oral communication skills with the ability to present technical ideas to stakeholders
- Being fluent in English, as it is the working language of the group (minimum level of B2 or similar)
- Ability to learn, flexibility and adaptability.
- Commitment to quality, to optimizing resources and to achieving results.
- Teamworking, ability to work independently, to organize, to problem solving and collaborate effectively with people of diverse backgrounds and cultures

IT WILL BE VALUED

- Knowledge of databases: SQL, Elasticsearch, MongoDB, Neo4J, etc. Having database management experience is a major plus
- Experience in working with REST API's for application and services integration
- Previous experience in similar projects

LABOUR CONDITIONS

- Full-time position (40h/week).
- Workplace: Centre for Genomic Regulation (CRG) - Barcelona
- Contract: Temporary (1 year and three months approximately, linked to the PMP CESPED project), financed by recovery, transformation and resilience funds from the European Union.

- Gross annual salary: 21.000€ - 23.000€
- Starting date: as soon as possible

SELECTION PROCEDURE

- Selection of CV's. Suitable and unsuitable CV's will be identified according to the requirements. Applicants who do not meet the requirements indicated in the candidate profile and requirements will not pass to the next phase.
- Evaluation of the CV. Evaluation of the CVs up to a maximum score of 40 points.
- Cover Letter. Attach to the resume a cover letter with a maximum length of 2500 characters with spaces. With a maximum score of 20 points.

To access the interview phase it is necessary to have obtained a minimum score of 35 points in the sum of scores of the evaluation of the curriculum and cover letter

- Personal interview. With a maximum score of 40 points.

Items	40
Attitude	10
Fit in the workplace	10
Experience, developed functions/skills	15
Teamwork	5

SELECTION COMMITTEE

- President: Jordi Rambla de Argila. (EGA Team Head)
- Chair 1: Amy curwin (EGA Scientific Project Manager)
- Chair 2: Teresa Garcia (EGA Scientific Project Manager)
- Chair 3: Elisabet Galve (IISPV technical office director)

SUBSTITUTES:

- President: Teresa D'Altri EGA Scientific Project Manager and Coordinator
- Chair 1: Aldar Cabrelles (EGA Data Coordinator)
- Chair 2: Liina Nagirnaja (EGA Scientific Project Manager)
- Chair 3: Conchi Aznarez (Human resources of IISPV)

CANDIDATURES

- The CV must include the DNI/NIE number or another personal identity document number.
- Send the CV and the Cover Letter through the IISPV website.
<https://www.iispv.cat/treballa-amb-nosaltres/>

For any questions or queries: recruitment@iispv.cat

DEADLINE FOR RECEIPT OF CV 19/07/2024

COMMUNICATIONS

The IISPV will notify the candidates of the results of the different phases of the selection process through its website.

HR EXCELLENCE IN RESEARCH

The IISPV has the European accreditation The Human Resources Strategy for Researchers (HRS4R), complies with the general principles of the European Charter for Researchers and the Code of Conduct for the recruitment of researchers.

The IISPV has an internal recruitment policy that follows the Open, Transparent and Merit-based Recruitment (OTM-R) policies. More information about the HRS4R policies implemented at the IISPV is available on the following website: <https://www.iispv.cat/hrs4r-hr-excellenceresearch/>

The IISPV will guarantee the right to equal opportunities and treatment, as well as the real and effective exercise of rights by people with disabilities under equal conditions with respect to other citizens, through the promotion of personal autonomy, universal accessibility, access to employment, 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 international treaties and agreements ratified by Spain.

In the event of a tie, priority will be given to hiring the person with a disability.

In the event of a tie between people of different genders, the person of the least represented gender in the work group/department/service in which he joins will be hired.