

“Bioinformatician for Cancer Genomics Data Analysis”

Centro Nacional de Análisis Genómico (CNAG-CRG)

The Institute

The Centro Nacional de Análisis Genómico (CNAG-CRG) is one of the largest Genome Sequencing Centers in Europe. CNAG-CRG researchers participate in major International Genomic Initiatives such as the International Cancer Genome Consortium (ICGC), the International Human Epigenome Consortium (IHEC), the International Rare Diseases Research Consortium (IRDiRC) and the European Infrastructure for life-science information (ELIXIR), as well as in several EU-funded projects.

It is integrated with the Centre for Genomic Regulation (CRG), an international biomedical research institute of excellence, based in Barcelona, Spain, with more than 400 scientists from 44 countries. The CRG is composed by an interdisciplinary, motivated and creative scientific team which is supported both by a flexible and efficient administration and by high-end and innovative technologies.

In April 2021, the Centre for Genomic Regulation (CRG) received the renewal of the ['HR Excellence in Research'](#) logo from the European Commission. This is a recognition of the Institute's commitment to developing an HR Strategy for Researchers, designed to bring the practices and procedures in line with the principles of the [European Charter for Researchers](#) and the [Code of Conduct for the Recruitment of Researchers](#) (Charter and Code).

[Please, check out our Recruitment Policy](#)

The role

We have an opening for a Bioinformatician to play a key role in a cancer related project, Instand-NGS4P (<https://www.instandngs4p.eu/>). The aim of this project is to develop a standardised Next Generation Sequencing (NGS) workflow from NGS data analysis to medical-decision making for common and rare adult and paediatric cancer. The workflow will leverage, among other, the current RD-Connect Genome Phenome Analysis Platform (<https://platform.rd-connect.eu/>), with the objective to cover data management, clinical and genome data integration, genome analysis pipelines, variant annotation, interpretation and reporting. With the supervision of the lead of the Variant Calling and Analysis team and in collaboration with cancer specialists, other bioinformaticians and software engineers, the successful candidate will design, develop and test bioinformatics workflows with state-of-the-art programs.

His/ Her responsibilities include:

- 1- Benchmarking of genomics data analysis pipelines
- 2- Identification and establishment of relevant thresholds for pipeline automation
- 3- Contribute to the implementation of analysis pipelines
- 4- Testing workflows and procedures
- 5- Contribute to the integration of the pipelines and workflows within a larger product, in close interaction with software engineers, bioinformaticians and biologists.



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About the team

The successful candidate will join the Variant Calling and Analysis team, coordinated by Dr. Raul Tonda (<https://www.cnag.cat/teams/bioinformatics-unit/variant-calling-and-analysis>). The team is part of the CNAG-CRG Bioinformatics Unit (led by Dr. Sergi Beltran), which has over 30 members and offers continuous growth and support on a professional level. The team works in a stimulating scientific environment, applying state-of-the-art technologies to breakthrough research projects in Genomics that have an impact on people's health.

Whom would we like to hire?

Professional experience

Must Have

- A minimum experience of 1 year in the analysis of Next Generation Sequencing whole exome or genome data
- Experience with Unix operating systems, including shell scripts

Desirable but not required

- Understanding of cancer genomics
- Experience within diagnostic settings and the analysis and interpretation of genomic data linked to personal clinical information
- Experience with Nextflow, CWL and/or WDL
- Basic knowledge of software containers

Education and training

- You hold an MSc in Bioinformatics or related discipline

Languages

- Fluency in written and spoken English

Technical skills

- Working experience in languages such as Perl, Python or R
- You have advanced MS Office skills

Competences

- Excellent organisational, prioritising, communication and interpersonal skills

The offer

- **Contract duration:** open ended project linked to a project.
- **Estimated annual gross salary:** Salary is commensurate with qualifications and consistent with our pay scales.
- **Target start date:** as soon as possible.



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We provide a highly stimulating environment with state-of-the-art infrastructures, and unique professional career development opportunities. To check out our training and development portfolio, please visit our website in the [training section](#).

We offer and **promote a diverse and inclusive environment** and welcomes applicants regardless of age, disability, gender, nationality, ethnicity, religion, sexual orientation or gender identity.

The **CRG is committed to reconcile a work and family life** of its employees and are offering extended vacation period and the possibility to benefit from flexible working hours.

Application procedure

All applications must include:

1. A motivation letter addressed to Dr Raul Tonda.
2. A complete CV including contact details.

All applications must be addressed to People Department and be submitted online on the CRG Career site - <http://www.crg.eu/en/content/careers/job-opportunities>

Selection Process

- **Pre-selection:** The pre-selection process will be based on qualifications and expertise reflected on the candidates CVs. It will be merit-based.
- **Interview:** Preselected candidates will be interviewed by the Hiring Manager of the position and a selection panel if required.
- **Offer Letter:** Once the successful candidate is identified the People department will send a Job Offer, specifying the start day, salary, working conditions, among other important details.

Deadline: The position will be open for at least 15 days since the date of publication. After it will remain open until a suitable candidate is hired.

Suggestions: The CRG believes in **ongoing improvement** and promotes a **culture of feedback**. This is one of the reasons we have in place, at your disposal as a candidate, a mechanism to gather your suggestions/complaints concerning your candidate experience in our recruitment processes. Your feedback really matters to us in our aim at creating a **positive candidate journey**. You can make a difference and help us improve by letting us know your suggestions through the [following form](#).



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