



centre nacional d'anàlisi genòmica
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“Single Cell Genomics – Computational Biologist”

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 shares principles of an interdisciplinary, motivated and creative scientific team that is supported by high-end and innovative technologies and a flexible and efficient administration.

In November 2013, the Centre for Genomic Regulation (CRG) received 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 are looking for a Computational Biologist to contribute to our efforts to delineate mechanisms of immuno-therapy (clinical trials). We are looking for an enthusiastic computational scientist, motivated to improve our understanding of immune cell function and to positively impact on cancer patient prognosis. The candidate will be integrated in the Single Cell Genomics Team, a highly collaborative, international work environment with well-experienced colleagues in single-cell data production and analysis. The position is supported through an EU-funded ERC project. The projects the candidates will be involved aim to understand the molecular and cellular basis of immuno-therapy action by applying multi-omics single-cell characterisation of immune and neoplastic cells, profiled throughout the course of the disease (including therapy).

Topics for the position include the development of statistical methods to integrate multi-omics single-cell and spatial data as well as clinical patient information. We are looking for highly motivated and a creative thinking individual who is interested in working in an environment where the technical sophistication of single-cell analysis technology meets innovative approaches for interpreting data and generating new knowledge. We require the ability for working in a multi-disciplinary team on collaborative projects. All career stages (Master/PhD/Postdoc) are welcome to apply. For undergraduate student, we offer the possibility to do a PhD. We encourage and prioritize applications from under-represented minority groups.



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About the team

The Single Cell Genomics Team at the CNAG-CRG is dedicated to advance genome research of single cells. The mission of the group is the implementation of single-cell sequencing technologies and their application in a research and translational context. The group focuses on the systematic integration of transcriptional and epigenetic data from individual cells to elucidate causalities underlying phenotype formation. We successfully established sequencing protocols to quantify gene expression and open chromatin of thousands of single cells. Our newly developed computational pipelines include methods to deconvolute tissue composition and track to transcriptional dynamics. Our international team joins computational, technical and biological knowledge in order to establish and apply best practices in single-cell research. The group combines collaborative research, development activities and follows research lines on the generation of human cell atlases and on translational cancer research.

We are member of the Human Cell Atlas Project. Web: <http://www.cnag.cat/teams/genome-research-unit/single-cell-genomics-team>

Whom would we like to hire?

Professional experience

Must Have

- You have good knowledge of Computational Biology

Desirable but not required/ Nice to have

- You have experience in single-cell analysis

Education and training

- You hold a Master degree or PhD in Bioinformatics, Mathematics, Statistics or similar

Languages

- You are fluent in English

Technical skills

- You have advanced knowledge of Python, Perl or R

Competences

- You have capacity to work as part of a collaborative team
- You are a highly motivated candidate
- You have highly developed organisational skills

The Offer – Working Conditions

- **Contract duration:** 2 years
- **Estimated annual gross salary:** Salary is commensurate with qualifications and consistent with our pay scales.
- **Target start date:** December 2020.



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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. Holger Heyn
2. A complete CV including contact details.
3. Contact details of two referees.

All applications must be addressed to Dr. Holger Heyn 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 Human Resources department will send a Job Offer, specifying the start day, salary, working conditions, among other important details.

Deadline: Please submit your application by 22nd November 2020.

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