



centre nacional d'anàlisi genòmica
centro nacional de análisis genómico



“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

The successful 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.

He/she will be responsible for the processing, analysis and interpretation of single-cell RNA and ATAC sequencing datasets, in the context of cancer and clinical research.

The candidate will be in charge of internal and collaborative projects, involving also responsibilities for data management and quality control.

About the team/ lab/ department

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 cutting-edge 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 and diseases.

We successfully established sequencing protocols to quantify thousands of single cells and developed computational pipelines to deconvolute tissue composition and track 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 an independent research line on translational cancer research.



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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 general knowledge in computational biology
- You have proven experience with NGS data processing
- You have skills in statistical inference

Desirable but not required/ Nice to have

- You have background in single-cell analysis
- You have experience working with LIMS
- You are CLI and BASH able

Education and training

- You hold a degree in a quantitative field (e.g. Computer Science, Mathematics, Physics, Computational Biology, Bioinformatics)

Languages

- You are proficient in English

Technical skills

- You have experience working with remote distributed job systems (e.g. Slurm).
- Good programming skills in scripting languages (e.g. Perl or Python)
- You have background in statistical programming with R.

Competences

- You have multitasking skills
- You have good analytical skills

The Offer – Working Conditions

- **Contract duration:** 3-year contract
- **Estimated annual gross salary:** Salary is commensurate with qualifications and consistent with our pay scales
- **Target start date:** January 2020

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, race, religion or sexual orientation.



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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 1st of December 2019.



HR EXCELLENCE IN RESEARCH