



centre nacional d'anàlisi genòmica  
centro nacional de análisis genómico

# Sample Preparation Specialized Technician

## Job Offer

### CNAG – The Institute

The Centro Nacional de Análisis Genómico (CNAG) is one of the largest Genome Sequencing Centers in Europe.

The CNAG Consortium aims to carry out large-scale projects in DNA/RNA analysis for the improvement of quality of life in collaboration with the Spanish, European and International Research Community. CNAG researchers participate in major International Genome Initiatives such as the Human Cell Atlas (HCA), the International Cancer Genome Consortium (ICGC), the International Human Epigenome Consortium (IHEC), the International Rare Diseases Research Consortium (IRDiRC), the European Reference Genome Atlas (ERGA) and the European Infrastructure for life-science information (ELIXIR), as well as in several EU-funded projects.

CNAG occupies approximately 1,400 square meters of laboratory and office space and operates 4 Illumina instruments (3 NovaSeq6000 and 1 MiSeq) and 2 large Oxford Nanopore Technologies sequencers (1 PromethION 24 and 1 GridION Mk1) that produce more than 7 Tbases of sequencing data per day. The sequencing operation is supported by an extensive informatics infrastructure: 15 petabyte of data storage, 10.000 computing cores and an internal 56 Gb/s network. The operation is certified ISO 9001 and accredited ISO 17025 and serves to deliver standardized, high-quality data for research and clinics. CNAG has highly developed single-cell operation equipped with a 10x Chromium X, 10x Chromium Connect, MissionBio Tapetri for individual cell analyses and for tissue analysis a Nanostring CosMx, 10x Visium and Stereo-seq.

The CNAG has more than 100 professionals, structured in different units such Bioinformatics, Sequencing, Single-cell, Research and Corporate Management.

### The Role

The successful candidate will work closely with the head of the Sequencing Unit within the Lab Support and Sample Preparation team.

## **Responsibilities:**

- Preparation of samples for sequencing
- Implementing new protocols
- Keeping rigorous audit trails of the work carried out, writing and updating documentation such as

### **Standard Operation Procedures (SOPs)**

- Recognizing and reporting erroneous protocol outcomes
- Stock and orders management

## **About the team/ lab/ department**

The Sequencing unit provides highly specialized support in next generation genomics to national and international researchers and clinicians and conducts strategic development and implementation of the protocols.

## **Professional experience**

- At least 3 years of work experience in molecular biological procedures, in particular PCR, cloning, DNA fragmentation and DNA/RNA extraction procedures

## **Must Have**

- Excellent laboratory techniques and able to work very reliably, pay attention to detail and work as part of a team
- Capable of working with computers and common software packages
- Should be very able with laboratory devices
- The emphasis will be on excellent laboratory practices
- Able to understand and speak English

## **Desirable but not required/ Nice to have**

- Experience with the 2nd and 3rd generation of DNA sequencing technology

## **Education and training**

- Master or PhD degree in Molecular Biology, Biochemistry, Biotechnology or similar

## **Languages**

- You are proficient in English

## **Technical skills**

- You have advanced MS Office skills

## Competences

- Work safely in a laboratory, maintaining excellent housekeeping.
- Understand and follow quality procedures to meet the requirements of quality standards relevant to the workplace.
- Understand the internal and external regulatory environment.
- Prepare for laboratory tasks using the appropriate scientific techniques, procedures and methods.
- Perform laboratory tasks following specified methodologies, such as SOPs.
- Technical competence in the use of specified instrumentation and laboratory equipment, including calibration where required.
- Produce reliable, accurate data and keep accurate records of laboratory work undertaken and results.
- Demonstrate the required attitude, behaviors and interpersonal skills associated with the professional workplace.

## Whom would we like to hire?

- You are highly motivated
- You have at least 3 years of experience in molecular biology
- You have proven experience with laboratory automated liquid handlers
- You have very good proficiency in English

## The Offer

- Contract duration: 12 months
- Estimated annual gross salary: Salary is commensurate with qualifications and consistent with our pay scales.
- Target start date: 05.02.2024

We provide a highly stimulating environment with state-of-the-art infrastructures, and unique professional career development opportunities.

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.

We are committed to reconcile a work and family life for our employees and are offering the opportunity to benefit from flexible working hours.

## Application Procedure

All applications must include:

- A complete CV including contact details.
- Motivation letter
- Contact details of two referees.

All applications must be addressed to Mireya Fernández – [mireya.fernandez@cnag.eu](mailto:mireya.fernandez@cnag.eu)

**Deadline:** Please submit your application by 31/01/2024

Please, see all of our job opportunities in the Career site of CNAG website: <https://www.cnag.eu/jobs>

**Consortium CNAG**

**Centro Nacional de Análisis Genómico**

National Center of Genomic Analysis

