

Bioinformatician

PharmaMar is a world leader company specialized in the development and commercialization of innovative anticancer drugs of marine origin. We are a multi-disciplinary team of biologists, chemists, clinicians, among many others, all working tirelessly towards one goal: to improve the healthcare outcomes of people afflicted with severe diseases.

We have an opening for a **Bioinformatician** at the Cellular Biology & Pharmacogenomics department within our Research & Development Division. The position will be at PharmaMar's Headquarters, located in Colmenar Viejo, Madrid, Spain.

The **Cellular Biology & Pharmacogenomics** section is involved in getting insights into the mechanism of action of novel cancer treatments and it is responsible for identifying molecular biomarkers that anticipate a better response to these drugs.

The candidate will design, implement and keep record of bioinformatic pipelines and databases to process, analyze and administrate data originated from different biological sources, -omics approaches and technical platforms. With the Pharmacogenomics section's head's direct supervision and in collaboration with molecular biologists, biostatisticians, data scientists and other specialists, the successful candidate will participate in preclinical and clinical trial-associated translational studies' design and data analysis. In addition, she/he will administrate the bioinformatics IT infrastructure.

We are looking for highly motivated and creative individuals who will be able to implement bioinformatics tools to collaborate in the generation of innovative approaches that will lead to the identification of new marine anticancer drugs and groups of patients that have the best responses to them.

Education, Knowledge and Experience:

Required:

- BSc / MSc related to Bioinformatics or Computational Biology. PhD will be considered
- Experience (>3 years) in cancer genomics / transcriptomics bioinformatics

Desired Experience or Knowledge:

- Proficient with programming languages such as R or Python
- Experience implementing bioinformatic pipelines for data analysis and visualization
- Experience with public repositories (-omic data download, management, annotations...)
- Experience implementing local databases for sample and molecular data management.
- Cancer genomics and cancer biology knowledge
- Clinical statistics knowledge
- Autonomous project management and coordination with data provider laboratories
- Quality and compliance assessment on procedures and documentation
- Good reporting, presentation and communication skills, being able to explain complex concepts to colleagues.

- Good interpersonal abilities and self-organization skills
- Comfortable in an agile and collaborative interdisciplinary working environment
- Fluent in English

Role and Responsibilities:

- Processing and Analysis of NGS data and other tumor molecular profiling techniques
- Development of computational workflows for NGS and multi-omics data integration.
- Implementation of workflows for fast data recovery, QC, visualization, and assessment.
- RNA-seq data analysis: whole transcriptome, gene panels, small RNA-seq analysis. Preprocessing QC, adapter trimming, alignment, transcriptome reconstruction, expression quantification, and Differential Gene Expression Analysis. Fusion gene detection.
- DNA-seq: data processing, QC assessment, filtering, and variant output (SNVs, indels and large CNVs) on genomes, exomes and gene panels. Tertiary analysis for genetic variant annotation, interpretation, and classification.
- Analysis of ChIP-seq, ATAC-seq, Cut&Tag sequencing.
- Coordination with IT department to maintain bioinformatics section infrastructure (HD space, WS and server computing resources)
- Forecast computational needs for optimal data processing and longtime data backup.
- Statistical analysis of molecular results related to clinical outcomes
- Give support to other sections on optimal data analyses and bioinformatics approaches
- Presentation of results, writing of internal reports and scientific communications

What we offer

- Proximity and collaboration with colleagues involved in all steps in anticancer drug discovery, from initial basic research to commercialization.
- Access to the last genomics and cancer molecular profiling technologies
- Access to hundreds of tumor samples and terabytes of cancer genomics data
- Continuous learning and personal training opportunities
- Flexible working hours

Other Benefits that PharmaMar offers to its employees

- Health insurance policy financed
- Canteen financed
- See more at <https://pharmamar.com/human-resources/what-pharmamar-offers-to-its-employees/?lang=en>

Please, if you are interested, you can sign up for this job offer at:

https://pharmamar.epreselec.com/Ofertas/Ofertas.aspx?Id_Oferta=2644208