

The Unit of Biomarkers and Susceptibility of the Catalan Institute of Oncology-Bellvitge Biomedical Research Institute (ICO-IDIBELL) in Barcelona (Spain) seeks a computational biologist for the recently established **Cancer Data Science (CaDS)** group, led by Dr. Xavier Solé.

The group seeks a highly motivated computational biologist to work on the analysis and interpretation of large-scale genomic, epigenomic, transcriptomic, and proteomics datasets. The research interests of the CaDS group, which is purely computational, lie in the intersection of computational and systems biology, machine learning, cancer molecular biology, translational oncology, and precision medicine. The group applies computational biology approaches to large scale datasets with the following specific aims:

- Identification of new biomarkers of susceptibility, diagnosis and response to treatment (Solé et al, PLoS One 2014).
- Identification of cancer mechanisms, molecular drivers, and/or new therapeutic targets (Salony, Solé et al, Mol Cancer Ther 2016).
- Tumor characterization using large scale omics profiling technologies, data integration, machine learning, and systems/network biology (Cordero, Solé et al, BMC Cancer 2014).
- Drug repurposing and identification of novel, more targeted therapeutic strategies.

Main duties:

- ✓ Analyze both public and in-house large scale omics datasets, mostly Next-Generation Sequencing and microarrays.
- ✓ To maintain an up-to-date, well-annotated repository of public datasets to be used in downstream analyses.
- ✓ To provide bioinformatics support to other people in the group and external collaborators with their projects.

Profile:

Must have – Required

- ✓ Degree in Computer Engineering, Statistics, Biomedicine, Biology or any related field.
- ✓ Master's Degree (or PhD) in Bioinformatics or any other related field, or equivalent demonstrable professional experience in the field of bioinformatics data analysis (2-4 years).
- ✓ Knowledge of programming and R/Bioconductor.
- ✓ Background in statistical analysis.
- ✓ Curious person and fast learner.
- ✓ Good knowledge of English, both written and spoken.
- ✓ Ability to work both independently and as part of a team.
- ✓ Ability to work in a multidisciplinary, fast-paced environment.

Desirable

- ✓ Former professional experience in the field of bioinformatics data analysis.

- ✓ Knowledge of Next-Generation Sequencing analysis protocols and software tools, especially RNA-Seq.
- ✓ Knowledge of Machine Learning techniques.
- ✓ Knowledge of Network Analysis.
- ✓ Familiarity with Linux and using a cluster computing environment.
- ✓ Background in genomics and molecular biology.

We offer

- ✓ Full time position.
- ✓ Compensation commensurate with candidate experience.
- ✓ Start date as soon as possible.
- ✓ Duration of the position and other details will be discussed in person with the candidates.

How to apply

- ✓ Please send your cover letter, CV, and potential references to Dr. Xavier Solé (x.sole@iconcologia.net), with the words “Bioinformatician position” in the subject.
- ✓ Interviews will begin immediately and position will remain open until filled.

Additional information

- Unit of Biomarkers and Susceptibility: <https://www.icopreencio.cat/ubs/en/>
- Cancer Prevention and Control Program: <https://www.icopreencio.cat/en/>
- Catalan Institute of Oncology: <http://ico.gencat.cat/en/inici/index.html>
- Bellvitge Biomedical Research Institute: <http://www.idibell.cat/en>

Hospitalet de Llobregat, February 8th, 2017.