



# Computational biologist researcher

## The Institute

The Centre for Genomic Regulation (CRG), is an international biomedical research institute of excellence, based in Barcelona, Spain, whose mission is to discover and advance knowledge for the benefit of society, public health and economic prosperity.

The breadth of topics, approaches and technologies at the CRG permits a broad range of fundamental issues in life sciences and biomedicine to be addressed. Research at the CRG falls into four main areas: gene regulation, stem cells and cancer; cell and developmental biology; bioinformatics and genomics; and systems biology.

With more than 380 scientists from 42 countries, the CRG excellence is based on an interdisciplinary, motivated and creative scientific team that is supported by high-end and innovative technologies.

The centre's other main strategic goals are: to translate basic scientific findings into benefits for health and economic value for society; to provide advanced and excellent training to our scientists; and to communicate and establish a bilateral dialogue with society.

CRG has received the "HR Excellence in Research" award from the European Commission, which shows the commitment of the institute in conducting transparent and merit-based recruitment procedures and providing attractive working conditions in alignment with the European Charter and Code.

For further information: [www.crg.eu](http://www.crg.eu)

## Mission of the role

A computational biologist researcher position is available in the lab of Mara Dierssen at the CRG. The Cellular and Systems Neurobiology lab at the Center for Genomic Regulation, a leading renowned center for biomedical research in Europe offers a 4-month contract full-time for a research assistant to support We seek a computational engineer, physicist or mathematician to collaborate on (1) the development of a computational framework for studying the relation between multiscale 3D neuromorphological properties and neuronal network connectivity with applications in the study of Down syndrome and (2) the analysis of stereo-EEG recordings applied to the study of seizure generation in intractable epilepsy. Both projects are led by the team leader of the Cellular and Systems Neurobiology group Dr Mara Dierssen.

## Requirements

### Experience

- Experience with and/or the ability to quickly acquire skills in electrophysiological recordings and analysis (e.g. EEG/EMG)
- Experience in computer programming (MATLAB/Python) is required
- Experience in designing and developing computational methods for three-dimensional modelling is desirable.

### Studies:

- PhD in physics, mathematics, computational engineering, computational biology or related fields.

### Technical skills required:

- A formal training and strong background in programming and modeling.
- Good script programming skills (MATLAB, Python, R, shell scripting).

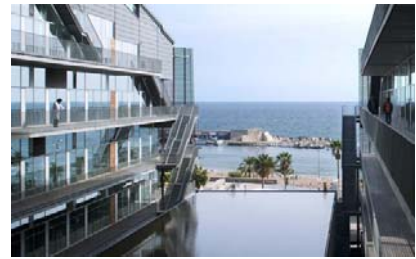
### Languages:

- Fluent level of English





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### The Offer

- **Duration:** up to 4 month, salary supported by a grant from the MINECO
- **Estimated annual gross salary:** A competitive salary will be provided, which will be well matched relative to the cost of living in Barcelona, and adjusted according to experience
- **Starting date:** September 2016 or earlier

We offer work in a highly stimulating environment with state-of-the-art infrastructures, providing the successful applicant with unique professional career opportunities.

CRG offers and promotes a diverse and inclusive environment and welcomes applicants regardless of age, disability, gender, nationality, race, religion or sexual orientation.

### Application Procedure

All applications must include:

1. A motivation letter addressed to Dr. Mara Dierssen.
2. A full CV including contact details.
3. Three contacts for further references.

All applications must be addressed to Dr. Mara Dierssen and be submitted by means of on-line application on the official website of the CRG - <http://recruitment.crg.eu/>.

**Deadline:** Please submit your application by **August 20th, 2016**

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