



Universitat  
Pompeu Fabra  
Barcelona

Departament  
de Ciències Experimentals  
i de la Salut



**Date of publication** February 1, 2021

**Job title** Research assistant in systems biology

### Job description

We are seeking a research assistant to work on monitoring gene expression in single-cell bacteria using time-lapse fluorescence microscopy and microfluidics, with the goal of identifying how transcriptional networks process complex time-dependent information from the extracellular environment. The experimental observations will be used to constraint computational models describing the dynamics of gene expression in those transcriptional networks, which will in turn suggest new hypotheses to be validated experimentally.

### Project and institution that finance the contract

This contract is being financed by the project AEI-PGC2018-101251-B-I00, "Enfoque físico de la auto-organización espacio-temporal de la materia viva", financed by the Spanish Ministry of Science and Innovation and FEDER through the Agencia Estatal de Investigación.

### Minimum requirements

- Candidates should be trained in biology, biotechnology, biomedical engineering, or equivalent. Other backgrounds might be acceptable if strong motivation to perform research in systems biology is shown.
- Knowledge of experimental methods in at least one of these areas is required: molecular biology, microbiology, biochemistry, microfluidics, and/or microscopy.
- Communication skills in English (written and oral) are also necessary.
- Knowledge of computational tools for data analysis and/or modeling is desirable.

### Benefits of the opening

The selected candidate will receive a part-time contract until Dec 31, 2021, with a gross salary/year of 17,000€.

### Application process

Candidates should submit an application containing a motivation letter, CV, and the contact details of two references, to Jordi Garcia Ojalvo ([jordi.g.oyalvo@upf.edu](mailto:jordi.g.oyalvo@upf.edu)).

**Application deadline: February 16, 2021**