



**Date of publication of the job offer: 08/10/2019**

### **Postdoc position**

### **Job description**

Theoretical, computational and network modelling of bioengineering scenarios based on the use of synthetic biology. These models should explore several relevant problems associated to the modification of endangered ecosystems facing tipping points as well as the impact of future engineering approaches to the circularisation of industrial metabolism. The position also requires interactions and collaborations with other partners within the MADONNA project.

H2020 European Project MADONNA (Microbial deployment of new-to-nature chemistries for refactoring the barriers between living and non-living matter)

**Official number reference:** 766975

### **Information on the minimum requirements**

The position requires familiarity with a diverse range of skills and expertise, including systems and synthetic biology, ecology, complex systems and network science. Experience in both wet and dry lab is particularly important, since the models require familiarity with the state of the art experimental approaches to bioremediation and engineered microorganisms. Candidates with a PhD in biology, bioengineering or physics are particularly encouraged to apply. Candidates have to be also familiar with mathematical and computational methods involving multi scale approaches to complex systems.

### **Benefits of the opening**

*The candidate will receive a one-year contract with a gross salary/year of 37.513€ plus Social Security costs. The job will be done at the Complex Systems Lab ([complex.upf.edu](http://complex.upf.edu)) within the Barcelona's Biomedical research Park (<http://www.prbb.org/parc#contacte>) and in research team including a highly interdisciplinary group.*



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i de la Salut

**Information on the application process :** the CV of the candidate must be sent to Ricard Solé, at ricard.sole@upf.edu

**Deadline to submit applications:** October 23rd 2019

**Contact :** Ricard Solé, ricard.sole@upf.edu