

## **POST-DOCTORAL DESCRIPTION:**

The Cellular and Molecular Mechanobiology Group is looking for a Postdoctoral Researcher to work on synthetic mechanotransduction. The candidate will work on a joint project co-led by Prof. Pere Roca-Cusachs at IBEC, and Prof. Marc Güell, head of the Translational Synthetic Biology lab at UPF. The goal of the project will be to engineer a synthetic system of mechanosensitive gene editing. Cells and tissues are known to respond to mechanical signals from their environment such as tissue rigidity, in a way that regulates major processes in health and disease. In this context, developing a system able to edit the genome with mechanical specificity will open currently unexplored areas for biomedical applications. The position will be part of the ERC-funded project MechanoSynth.

## **The successful candidate will develop research involving:**

- Developing a platform for the directed evolution of mechanosensitive gene editing systems
  - Running evolution campaigns to generate mechanosensitive gene editors
  - Characterizing the function of mechanoactivated gene editors in biologically relevant settings
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## **Requirements for candidates:**

- PhD in life sciences
- Competencies and skills: Communication, Teamwork and collaboration, Commitment, Proactivity, Integrity, Critical and Analytical thinking
- Experience and interest in molecular biology
- High level of English

## **WHAT WE OFFER:**

- Number of available positions: 1
- Working conditions:
- *Full time 3-year* contract.
- Competitive salary
- Measures to reconcile work and family life (parental leave, flexible schedule working hours, 23 working days of paid holidays, 9 leave days for personal matters, among others)

## **HOW TO APPLY:**

All applicants are invited to submit their applications including a detailed curriculum vitae at [proca@ibecbarcelona.eu](mailto:proca@ibecbarcelona.eu) and [marc.guell@upf.edu](mailto:marc.guell@upf.edu)