

## NON-EQUILIBRIUM PHENOMENA IN SOFT ACTIVE MATTER

The candidate will carry out mostly experimental work aimed at studying the behavior of gels of cytoskeleton protein extracts under droplet confinement, in contact with interfaces, or in microfluidic channels. In the presence of ATP, the components of this material feature spontaneous motion, leading to fascinating organized behavior.

The candidate will work in the Department of Materials Science and Physical Chemistry at the University of Barcelona, within the framework of the Institute of Nanoscience and Nanotechnology in an multidisciplinary environment that includes Physicists and Chemists, and will collaborate with other PhD students and senior researchers in the development of microfluidic devices, preparation and control of the active gels, and their characterization based on the analysis of fluorescence and confocal microscopy images.

**Requirements for the candidate:** Master Degree in Physics, Chemistry, or equivalent by September 2017.

The PhD position will be in the form of a **3 year fellowship** funded by the Spanish MINECO. Please, search “Formación doctores MINECO 2016” for the details of the most recent call (in Spanish).

**Submission of the candidacy:** before end of September 2017.

**Starting of the contract:** Fall 2017.

**For additional information and submission of applications contact Prof. Jordi Ignés at [jignes@ub.edu](mailto:jignes@ub.edu)**