2 Postdoctoral Positions on the Physics of Multicellular Systems

We are seeking outstanding postdoctoral candidates to join the Campas lab (Morphogenesis and Self-organization of Living Matter lab) at the University of California, Santa Barbara (UCSB). Our group combines theoretical and experimental approaches to study the physics of multicellular systems. We have recently developed two microdroplet-based techniques that enable direct measurements of local stresses and mechanical properties within developing 3D tissues (Campàs et al., Nature Methods, 2014; Serwane et al., Nature Methods, 2017), as well as allowing the application of controlled forces. These techniques enable the quantification of the local physical fields in multicellular systems, providing a unique opportunity to study the non-equilibrium physics of these living systems.

We are specifically seeking independent, passionate, and motivated applicants for a postdoctoral position to work, at either experimental or theoretical level, on the physical aspects of multicellular systems and their connection to morphogenesis. The candidates will be able to work in a collaborative manner with a highly interdisciplinary group of researchers, including physicists, engineers and biologists. A Ph.D. in physics, or closely related fields, is required. Experience in quantitative biology, biophysics and/or soft matter physics will be considered positively. One position is available for candidates with theoretical background and one for candidates with experimental background.

These are renewable, two-year positions with full benefits, reappointed annually according to the performance of the candidate. Salary will be competitive and dependent on the level of experience of the candidate. Applicants should email a CV and a description of research interests to Prof. Campas (campas@engineering.ucsb.edu), and should also arrange for at least two references to submit letters of recommendation of their behalf. Applications submitted by August 31st, 2017 will receive priority consideration, but the positions will remain open until filled. Start date is flexible.

The University of California, Santa Barbara (UCSB) provides an exceptional, interdisciplinary and collaborative environment for scientists interested in quantitative biology and systems biology. Researchers at UCSB enjoy regular visits from world-leading scientists and workshops on quantitative biology and biophysics through the Kavli Institute for Theoretical Physics, in addition to exposure to the Summer School on Quantitative Biology.

Cordially,

Otger Campas