UNIVERSITÄT SALZBURG

PhD Position in Biological Physics: Salzburg / Austria

One 4-year PhD position is available from the 1st of March 2019, in the new MorphoPhysics group based within the Department of the Chemistry and Physics of Materials at the University of Salzburg, Austria.

The ability of biological tissues to change both their external shape and internal structure, allows organisms to grow, to adapt to their environment, and even to heal damage. Shape changes may even perform a function in tissues without an active metabolism, such as found in seed dispersal units within the plant world. In the MorphoPhysics group we explore how mechanical and geometric boundary constraints influence shape changes in growing and swelling tissues using a combination of theoretical and experimental techniques. The research group started in Salzburg in October 2017 after moving from the Department of Biomaterials, Max Planck Institute of Colloids and Interfaces in Potsdam, Germany.

Open Positions: We are looking for curious, broad minded and motivated candidates with a strong background in physics, biophysics, biology, biomaterials, and/or bioengineering. Applicants must hold a Masters degree to enable them to satisfy the entry requirements for a PhD program at Salzburg University. The PhD project will focus on 4D imaging of cell-migration and tissue growth during in-vitro culture on curved substrates. The applicant should be interested basic cell and molecular biology, and imaging techniques such as confocal/light-sheet microscopy. Preliminary experience in these fields is desired but not mandatory. English communication skills, both verbal and in writing are essential. The position is funded by the University of Salzburg meaning the students will participate in teaching activities (2 hours a week) during the last two years of the PhD. Interested applicants should submit a cover letter as well as a CV and a 1 page description of their past studies and research activities, future goals and a statement why the candidate wishes to work together us.

Applications must be submitted to the following email address (bewerbung@sbg.ac.at). Please quote the reference number: **GZ A 0007/1-2019** in the application letter. The PI, John Dunlop (john.dunlop@sbg.ac.at), can be contacted for more information or assistance. The deadline for applications is **January 23rd 2018**. (Further information about the positions can be found in German on the following link). See also www.uni-salzburg.at/physics/morphophysics for more information about the research interests of the group.