



## Post-doctoral position on Computational Biomechanics

The Cancer Biophysics laboratory at the University of Cyprus is a newly formed lab financially supported by a Starting Grant from the European Research Council (ERC-2013-StG-336839 "ReEngineeringCancer"), under the direction of Dr. Triantafyllos Stylianopoulos, Lecturer of Mechanical Engineering.

The focus of the laboratory is the application of principles from engineering and biology to investigate the mechanisms with which physical forces are related to tumor growth, progression and treatment. The Cancer Biophysics is a vibrant, multi-disciplinary research Lab where state-of-the-art experimental techniques are combined with novel computational methods to relate mechanics to the patho-physiology and drug delivery in solid tumors.

### **Description of position:** Post-doctoral fellow on Computational Biomechanics

The post-doctoral fellow will develop a biomechanical model of tumor growth and drug delivery and will be involved in the experimental validation of the model in collaboration with the tumor biologists of the Lab. The Cancer Biophysics laboratory is equipped with a high performance computing system and commercial software to address the computational needs of the project as well as with the experimental equipment to measure mechanical properties and stresses in mice-bearing tumors for validation.

The candidate should possess a PhD degree and have a strong background on mechanical or biomedical engineering and extensive experience on computational methods (Finite elements, time integration methods, parallel programming etc.). Essential qualifications also include an excellent publication record in the research area of computational (bio)mechanics and demonstrated critical thinking and independence.

Applicants should send the following to Dr. Triantafyllos Stylianopoulos ([tstylian@ucy.ac.cy](mailto:tstylian@ucy.ac.cy)): CV, copies of two representative publications and contact information for two referees. Applications will be accepted by October 15th or till fulfillment of the position. For further information please contact Dr. Stylianopoulos at +357 2289-2238 or [tstylian@ucy.ac.cy](mailto:tstylian@ucy.ac.cy).

The starting day of the position has been set on or after January 1st, 2014.