Research Opportunities at University of Maryland

The Tubaldi Lab, University of Maryland - College Park is looking for bright, enthusiastic, and ambitious candidates who are interested in pursuing Graduate Research (Master Thesis or PhD Program) in the World-renowned UMD Mechanical Engineering Department.

The successful candidates will work on cutting-edge projects at the interface of nonlinear dynamics, soft materials and fluid-structure interactions for applications in *Bioinspired Soft Robotics, Cardiovascular Biomechanics,* and *Nonlinear Mechanical Metamaterials*. Both numerical and experimental approaches will be used to investigate and reveal fundamental physical principles that govern the "*Dynamics of things*".

Master Thesis (6-8 months): The successful candidates will work on research projects focusing on complex dynamical systems. They will work under the supervision of Prof. Tubaldi and will have access to the Tubaldi Lab equipment. They will develop an original research study based on either numerical or experimental methods.

PhD Program: The successful candidates will become proficient in modelling the complex dynamics of soft materials and advanced mechanical systems, designing experiments, and writing journal papers. They will also acquire exceptional communication skills through presenting their research at international conferences.

Location:

Founded in 1856, the University of Maryland (UMD) is located in College Park, Maryland. Our large and beautiful campus represents an ideal environment to perform impactful research. Cutting-edge laboratories together with peaceful green oasis are just the perfect mix to envision the Future. The campus is just minutes away from Washington D.C. allowing several faculty members and students to live in the National Capital and easily commute on a daily basis. This unique proximity to the Capital facilitates important research opportunities and connections with NASA, National Science Foundation, National Institutes of Health, the Department of Homeland Security and many others. World-leading industries (such as Amazon, Lockheed Martin, Northrop Grumman, and Pfizer) have established strategic branches and headquarters in the area.

Requirements for Master Thesis:

- Being enrolled in a Master's Program in an accredited institution.

Requirements for PhD Program:

- Bachelor's or Master's degree in an appropriate area from an accredited institution
- Proficiency in English
- Successful submission of online application form, recommendation letters and other documents as detailed in the Admissions Requirements.

Further information:

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