

**PhD position for nanomaterial fabrication at the Mechanical and Aerospace
Engineering Department at the University of Florida**

There is a PhD opening at the Department of Mechanical and Aerospace Engineering for fabricating novel nanomaterials for energy and biological applications. Focus will be given on Si and Si/polymer composites as they can be used for both anodes in Li-ion batteries, and scaffolds for tissue engineering. The student will focus on fabrication and characterization, while the applications for energy and biomedical applications will be performed with the assistance of other group members. Characterization will also be performed after electrochemical cycling in order to document the mechanical deformation that anodes experience. This part of the study will take place in CEMES-CNRS, Toulouse.

Requirements: Applicants must have a Master's Degree and experience on nanomaterial fabrication, transmission electron microscopy and atomic force microscopy. Preference will be given to those with experience on either: electrochemical cycling/impedance measurements or performing cell cultures. The applicant must be proficient in English, have strong writing skills, and must be highly motivated and dedicated.

Position details: The position will require graduate assistant teaching at UF, and is to begin in August 15, 2017. Applications are to be sent asap.

Interested applicants can email: Prof Katerina Aifantis (kaifanti@mtu.edu) who will be joining UF in August and will act as the main advisor, and Prof Marc Legros (marc.legros@cemes.fr) who will be the co-advisor at CEMES-CNRS.