

Research Scholarships available at the Post Doc and Ph.D. candidate levels on Data-Based Statistical Condition Monitoring & Robust Structural Health Monitoring for Aircraft and Surface Vehicles

We seek:

Outstanding, highly motivated individuals interested in conducting research at the **Post Doc** or **PhD candidate** level in the broad area of Data-Based Statistical Condition Monitoring and Robust Structural Health Monitoring for Aircraft and Surface Vehicles.

Requirements and Eligibility Criteria:

Post Doc:

- Ph.D. Degree in Mechanical Engineering (related fields also considered)
- Ph.D. Thesis focus in the field (also including structural dynamics, random vibration, signal processing, time series analysis, system identification)
- Strong mathematical skills
- Strong programming skills (MATLAB; R and Python desired)
- Excellent technical writing skills - Excellent command of Greek and English
- Strong publication record
- Must be within four years from Ph.D. graduation

Ph.D. candidates:

- M.S. Degree (or equivalent) in Mechanical Engineering (related fields also considered)
- Very good mathematical skills
- Very good programming skills (MATLAB; R and Python desired)
- Excellent command of Greek and English
- Must be within four years from M.Sc. graduation or expecting graduation soon
- Thesis, publications, prior experience on the topic will be a plus

The Positions:

Post Doc: Expected to work closely with faculty and Ph.D. candidates on various projects within the mentioned or related fields in order to tackle challenging and practically important problems. All projects are industrially motivated and include analytical, simulation, and hands-on experimental work and are carried out in collaboration with national/international industry and international academic institutions. Strong emphasis is placed on presentation and publication of the results at top international venues and conferences. Initial appointments are expected to be for one year with possibility for renewal.

Ph.D. candidates: Expected to work on their thesis, tightly related to an industrially motivated project, in collaboration with faculty, Post Docs, and M.Sc. students. All projects include analytical, simulation, and hands-on experimental work and are carried out in collaboration with national/international industry and international academic institutions. Initial appointments are expected to be for one year with possibility for renewal.

Expected starting time (all positions): 2020 – Quarter 3.

The SMSA Lab (www.smsa.upatras.gr):

World class Laboratory on Stochastic Mechanical and Aeronautical Systems and Automation with decades of experience on data-based modeling methods, system identification, time series analysis, random vibration, structural dynamics, fault detection and Structural Health Monitoring. Excellent computational and experimental facilities. The University campus is in an attractive and picturesque area, overlooking the famous suspended bridge across the straights at Rio. Patras is an attractive university town offering plenty of cultural, recreational, and social opportunities.

Please send your CV and a Statement of Purpose to Prof. S.D. Fassois at fassois@upatras.gr Three references shall be required in a follow-up step. Applications shall be considered till the positions are filled.