



## Laboratory for Stochastic Mechanical Systems & Automation (SMSA)

<http://www.smsa.upatras.gr>

November 3, 2009



### Ph.D. Research Positions on system identification, condition and health monitoring for new generation wind turbines

The Laboratory for Stochastic Mechanical Systems and Automation (SMSA) at the University of Patras, Greece, invites applications for 2 new Ph.D. research positions on SYStem identification, condition and health monitoring for a new generation of WIND turbines (EU funded project SYSWIND).

The research work is to start soon, and each research position is funded via a contract by the European Commission for a period of 3 years. The research will be performed in close collaboration with the project partners across Europe (Aalborg University - Denmark, University of Cagliari - Italy, LAC engineering - Denmark, NREL- Risø Danish Technical University - Denmark, University of Sheffield – UK, and Trinity College Dublin - Ireland), as well as associated partners elsewhere in Europe and the USA.

**The positions:** The positions focus on novel time series based methods for robust detection of damage, effective diagnosis (type determination, localization, level estimation), in complex wind turbine structures under varying operating conditions and significant levels of uncertainty. The SMSA Laboratory is an international leader in the area of stochastic methods for Structural Health Monitoring and offers excellent research conditions in a very attractive environment.

**Desired Qualifications:** Each Ph.D. researcher must hold a Diploma or Master's level degree in Mechanical/Aerospace/Electrical/Civil Engineering/Computer Science or other relevant discipline. He/she may be of any nationality, but must fulfil the EU mobility requirement (having not lived in Greece for more than 12 months in the past three years). The working language – also for the Ph.D. dissertation - will be English. Knowledge of time series methods, signal analysis, structural dynamics, wind turbine technology, and MATLAB will be considered a plus.

**Further information and CV submission:** Prof. S.D. Fassois, [fassois@mech.upatras.gr](mailto:fassois@mech.upatras.gr)  
[www.smsa.upatras.gr](http://www.smsa.upatras.gr) tel/fax: +30 2610 96 94 95. Please include the names and coordinates of at least two referees.