

Marie Skłodowska-Curie ITN Early Stage Researcher Post in Vibroacoustics of poroelastic - composite structures

Salary in accordance with the EU Marie Skłodowska-Curie financial guidelines for this scheme

Applications are invited to work with Dr. Dimitrios Chronopoulos, Prof. Gregor Tanner, Dr. Luc Jaouen and the team of MATELYS-Research Lab as part of the European-funded Marie Skłodowska-Curie European Industrial Doctorate (EID) Network, "N2N". Successful applicants will register for a PhD programme at the University of Nottingham.

The successful applicant is expected to build on advanced models to predict and to optimise the vibroacoustic behaviour of poroelastic-composite materials. Addressed structures include curved structures and assemblies with inclusions (such as resonators or stiffeners) and more generally heterogeneous structures which are sometimes called meta-materials. The PhD work will combine substantial theoretical developments together with solid experimental tasks.

Candidates must be in possession of (or expected to obtain) a first class or a 2:1 degree in mechanical/aerospace engineering, applied mathematics/physics, acoustics, or a relevant discipline and have a solid background in dynamics of solids and/or composite structures numerical modelling. Excellent written and verbal communication skills are also essential.

Candidates will also be required to meet the Marie Skłodowska-Curie Early Stage Researcher eligibility criteria: (<http://ec.europa.eu/research/mariecurieactions/>). In particular, at the time of appointment candidates must have had less than four years full-time equivalent research experience and must not have already obtained a PhD. Additionally, they must not have resided in the (host country) France for more than 12 months in the three years immediately before the appointment.

The post benefits from a **highly competitive and attractive salary, plus mobility and family allowances as applicable.**

This full-time position will be available from early 2018 and is offered on a fixed-term 36 month contract. This is an excellent opportunity to work in an international and multi-sectoral research environment. Candidates will spend time both in MATELYS as well as in Nottingham University, a leading university in the domain of mechanical engineering. Intense mobility within, as well as outside Europe is envisaged throughout the duration of the project. The successful candidate will also benefit from a comprehensive training programme aiming at developing her/his soft skills.

The candidate will be fully integrated to MATELYS team. As a complement to the PhD framework, the candidate will have the opportunity to touch on the other domain of activities of the company : automotive, aircraft, railway, industrial and domestic appliances, software development and experimental work. Matelys offers an attractive working environment at the interface between industry and academic research activities. Matelys is a growing business company having a broad track record of successful applications from which the candidate will take profit for its own career plan. Read more at <http://www.matelys.com/>

Formal applications must be made through a detailed CV addressed to Dr Luc Jaouen (luc.jaouen@matelys.com) and Dr. Dimitrios Chronopoulos (Dimitrios.chronopoulos@nottingham.ac.uk).



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