

An EU FP7 Marie Curie Industry-Academia Partnerships and Pathway (FP7-PEOPLE-2012-IAPP) grant

OPEN POSITION at Technical University of Cluj-Napoca, Cluj-Napoca, Romania

Project title: **DESIGN, MODELLING AND TESTING TOOLS FOR ELECTRICAL VEHICLES POWERTRAIN DRIVES (DeMoTest-EV)**

Grant agreement no.: 324345. Duration: 2013-2016



DEsign, MOdelling and TESTing tools
for Electrical Vehicles

The Technical University of Cluj-Napoca is looking for an **Experienced Researcher** (duration **24 months**) focused on the **modeling, simulation and testing of noise and vibration in electrical machines and drives for automotive applications**.

CANDIDATE PROFILE:

- Must be fluent in spoken and written English.
- Must have a Ph.D. degree in Electromechanical/Mechanical Engineering with an adequate scientific background in noise and vibration of electromechanical systems.
- Must not have resided or carried out her/his main activity (work, studies, etc.) in Romania for more than 12 months in the 3 years immediately prior to their recruitment. Short stays, such as holidays and visits are not taken into account.
- Must have maximum 10 years of full-time research experience.

SPECIFIC TOPICS:

- Multi-physics multi-domain modeling and HiL testing of advanced electromechanical/mechatronic systems
- Noise and vibration in electrical machines and drives for automotive applications

ADDITIONAL REQUIREMENTS:

- Specific experience with:
 - CAD software for electromechanical/mechatronic systems.
 - Electromagnetic/structural/vibroacoustic simulation software (Experience with JMAG, Nastran, VirtualLab is an advantage).
 - MATLAB/Simulink (Experience with LabAmesim is an advantage).
 - HiL development platforms.

LOCATION:

The research activities will be carried out in Cluj-Napoca (Romania) at Technical University of Cluj-Napoca. Short term visits carried out at LMS International (Leuven, Belgium).

REMUNERATION:

Will be in line with the EC rules for Marie Curie grant holders and consists of a salary augmented by a net mobility allowance. See details at: <http://cordis.europa.eu/fp7>.

APPLY NOW!

Targeted start date: January 1, 2014.

Application deadline: October 15, 2013.

To apply, please send a **detailed CV** together with a **letter of motivation** and **names of reference(s)** to:

Prof. Claudia MARȚIȘ

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