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

Project title: OPTIMAL LOW-NOISE ENERGY-EFFICIENT ELECTRICAL MACHINES AND DRIVES FOR AUTOMOTIVE APPLICATIONS (EMDA_LoOp)

Grant agreement no.: 324329. Duration: 2013-2016

The Technical University of Cluj-Napoca is looking for an Experienced Researcher (duration 24 months) focused on the simulation and control of low power a.c. electrical motors for automotive applications.

CANDIDATE PROFILE:
• Must be fluent in spoken and written English.
• Must have a Ph.D. degree in Electrical Engineering with an adequate scientific background in modeling and control of electrical machines.
• 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 testing of advanced electromechanical/mechatronic systems
• Modern control techniques of low power a.c. machines. Both theoretical background and implementation on advanced hardware platforms.

ADDITIONAL REQUIREMENTS:
• Specific experience with:
  - CAD software for electromechanical/mechatronic systems.
  - Electromagnetic simulation software (JMAG and/or FLUX).
  - MATLAB/Simulink.
  - DSpace/CompactRio development platforms
  - Experience with LabVIEW is an advantage.

LOCATION:
The research activities will be carried out in Cluj-Napoca (Romania) at Technical University of Cluj-Napoca.
Short term secondments carried out at Brose Fahrzeugteile GmbH & Co (Würzburg, Germany).

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: February 3, 2014.
Application deadline: October 15, 2013.
To apply, please send a detailed CV together with a letter of motivation, names of reference(s) and (optional) 1-2 recommendation letters to:
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