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Job posted by Czech Technical University in Prague (20/05/2013 11.43)

Application details

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The Czech Technical University, Faculty of Mechanical Engineering (CTU)
<http://www.fs.cvut.cz> is looking for recent doctoral study graduates focused on the simulation and optimization of vehicle powertrains and predictive control of power systems. (Graduation between March 29, 2008 and the date of admission. Studies took place at Czech or foreign universities.)

Specific topics of research and mentors:

Prof. Ing. Michael Valášek, DrSc., <http://www.fs.cvut.cz>
1. Research of efficient simulation of fully nonlinear predictive control with constraints for advanced powertrains or chassis systems involved in integrated vehicle control.
The topics should be selected preliminarily by the candidate.

Nr of positions available : 1

Research Fields

Technology - Other

Career Stage

Early stage researcher or 0-4 yrs (Post graduate)

Research Profile

First Stage Researcher (R1)

Other job details

Job ID
33862196

Country
CZECH REPUBLIC

Type of Contract
Temporary

Status
Full-time

Company/Institute
Czech Technical University in
Prague

Hours Per Week
40

Street
Prilepska 1920

City
Roztoky u PrahyPostal Code
252 63

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Early stage researcher or 0-4 yrs (Post graduate)

First Stage Researcher (R1)

Gross salary of at least 56 000 Czech Crowns (CZK) – approx. 2000€, well above the national average salary (950€); social and health insurance paid by the employer; possible increase in case of excellent results after the first 6 months; the result assessment depends on contribution to publishing activities of research teams;

Paid business trips to present the results at one or more congresses or conferences annually ;

Paid, minimum of 3 months practice in industrial R&D in the Czech Republic or abroad (e.g., Škoda Auto, Porsche Engineering Services Prague, AICTA Design Works, Ricardo Prague, Honeywell Turbo Technologies, etc.);

Possibility to continue employment and academic carrier after the end of the project, especially in case of successful grant applications.

The employer will help participants of the project in finding accommodation, if necessary.

The contract with the employee will be valid for the period since date of admission (at the earliest 1st August 2014) till 30th June 2015;

The research activities will be carried out at the Czech Technical University, Josef Božek Research Centre located in Roztoky (<http://www.vtp-roztoky.cz>) suburb of Prague, Czech Republic;

The employee will take part in teaching activities in the range of 3-5 hours/week.

To apply, please send by e-mail and (followed) by a letter, which both should reach contact person at CTU in Prague till 13th July 2014, midnight:

1. a detailed CV in English or Czech, at least one page A4 (including list of published papers with the full bibliographic data and impact factor of the journal according to WoS, patents and realized engineering works – applicants with better publication activities will be preferred); the applications without detailed information on impact factor will not be assessed;
2. a letter of motivation in English or Czech stating the selected # of topics mentioned above and commenting details of your intentions in doing that research;
3. copy of the certificate of English language knowledge (e.g., CAE or TOEFL or electronic version of Ph.D. Thesis in English);
4. copies of the master and Ph.D. diplomas;
5. one recommendation letter in English or Czech with the full e-mail and phone contacts to the recommending person.

Additionally (voluntarily),

6. full-text electronic copies of three of your best published papers/articles.

Web site for additional job details: <http://bozек.cvut.cz>

Required Languages

Required Education Level

Degree Field	Mathematics
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Degree Field	Engineering
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- Proven abilities of publishing the results of R&D are the most important criterion for applicant's assessment.
- Specific experience with CAE simulation methodology (Finite Element Method (FEM), Computational Fluid Dynamics (CFD) or Multi-Body Simulation (MBS) in connection to CAD (Creo or Pro/Engineer, Catia v5) is an advantage. Specific experience with commercial codes FIRE, GT Suite, Adams, Simpack is an advantage.
- Expertise with multi-domain system modeling (behavioral 1D up to detailed 3D) and/or multi-attribute optimization is an asset.
- Knowledge, experience and skills in the field of experimental investigation of combustion engines and motor vehicles are an advantage.
- Knowledge of programming languages (Fortran, VisualBasic, C++) and/or knowledge of Matlab are an advantage.

Degree	PhD or equivalent
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