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Post-docs in the Field of Vehicle Power Train and Power Management Modelling and Control

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Open positions for PhD. Graduates (Post-Docs) at the Czech Technical University in Prague in the field of Vehicle Power train and Power Management Modelling and Control

Description

Open positions for PhD. Graduates (Post-Docs) at the Czech Technical University in Prague in the field of Vehicle Power train and Power Management Modelling and Control

Project OP VK CZ.1.07/2.3.00/30.0034
Support of research teams at Czech Technical University in Prague.
Duration: October 15, 2013 (earliest date of employment) - June 30, 2015.

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.

CANDIDATE PROFILE: All candidates must be fluent in spoken and written English. A candidate has a Ph.D. degree (or equivalent) in mechanical engineering or physics and an adequate mathematical background. The maximum time after graduation is 5 years*. He or she published at least one journal paper impacted and registered by WoS.

The topics should be selected preliminarily by the candidate. Additional requirements on candidates:
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. Specific experience with multi-domain system modeling (behavioral 1D up to detailed 3D) and/or multi-attribute optimization is an asset.
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

Application details

Other job details

Academic Positions

Job ID: 33902479
Type of Contract: Temporary
Status: Full-time
Company/Institute: Czech Technical University in Prague
Country: CZECH REPUBLIC
City: Prague 6-Dejvice
Postal Code: 160 00
Street: Thákurova 2077/7

Company/Institute: Czech Technical University in Prague
Academic Thákurova 2077/7
160 00 - Prague 6-Dejvice
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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.

Conditions:
the contract with the employee will be valid for the period since date of admission (at the earliest 5th March 2014) till 30th June 2015;
the research activities will be carried out at the CzechTechnicalUniversity, 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;
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., Skoda Auto, Porsche Engineering Services Prague, AICTA Design Works, Ricardo Prague, Honeywell Turbo Technologies, etc.);

Nr of positions available : 2

Please note that the full description may be available in the national language since some job boards have their own publication policy. Thank you for your understanding!

Research Fields


Engineering - Mechanical engineering

Career Stage

Experienced researcher or 4-10 yrs (Post-Doc)

Research Profile

Not defined



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Career Stage
Experienced researcher or 4-10 yrs (Post-Doc)


Research Profile
Not defined



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