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CZECH TECHNICAL UNIVERSITY IN PRAGUE, CZECH REPUBLIC

## Post-Docs in the field of Power **Train and Power Management Modelling and Control**

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 graduates1 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.

Specific topics of research and mentors:

Prof. Ing. Jan Macek, DrSc.,

http://fsinet.fsid.cvut.cz/en/u2201/PERSONNEL/macek/ or http://bozek.cvut.cz

The methods of optimization by simulation (assessment combining 0-D, multibody, 1-D and 3-D methods) and experiments applied to

- 1. new concepts of engines concerning advanced combustion systems, including the use of alternative fuels with good efficiency and low pollutant/NVH emissions;
- 2. new concepts and models of turbocharging and supercharging components and engine charge

## Prof. Ing. Michal Takáts, CSc., http://www.fs.cvut.cz

The methods of experiments and simulations applied to

3. development of methods for experimental research and optimization of components of turbo/superchargers and engine charge exchange.

Experience-based semi-empirical methods will be calibrated by detailed simulations at higher level of modeling



We provide high-quality university education through an extensive portfolio of primarily engineering branches of study, conduct basic and applied research and numerous scientific projects with great emphasis on industrial use and applications..

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## Application details

→ Published: 2013-07-24

Application deadline: 2013-10-04

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