



evropský
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EVROPSKÁ UNIE



MINISTERSTVO ŠKOLSTVÍ,
MLÁDEŽE A TĚLOVÝCHOVY



OP Vzdělávání
pro konkurenceschopnost

INVESTICE DO ROZVOJE VZDĚLÁVÁNÍ

Czech Technical University in Prague

Project „Support of research teams of CTU“

CZ.1.07/2.3.00/30.0034

**Postdoctoral position at the Faculty of Biomedical Engineering, Czech Technical University in
Prague**

Optimization of mechanical lung ventilation

Karel Roubík, PhD, assoc. prof. of biomedical engineering

The Non-conventional ventilatory team (NVT) at the Department of Biomedical Technology, Czech Technical University in Prague, is a research group interested in all aspects of mechanical ventilation including theoretical analyses, modeling, design of respiratory care equipment, animal experiments, and clinical trials. Currently, we are focusing on High Frequency Oscillatory Ventilation (HFOV), Electrical Impedance Tomography (EIT) and heliox administration in respiratory care.

We seek a full-time postdoctoral researcher to join our team who will contribute to our ongoing projects on HFOV and EIT, and will develop new research directions. The primary work will involve experimental data processing and analysis, and design and management of animal experiments. The successful candidate is also expected to write journal and conference papers and mentor graduate and undergraduate students.

Minimum qualifications:

Ph.D. in biomedical engineering or a related field completed after March 29, 2008. At least one published paper indexed in Web of Science. Excellent English communication skills. Experience with biomedical signal processing and analysis.

Preferred qualifications:

Strong publication record. Good software programming skills in Matlab, C, or similar. Background in one or more of the following areas: respiratory care, biomedical instrumentation, statistics, fluid mechanics, or control engineering.

Salary and project duration:

56 000 CZK, i.e. approx. 2200 EUR, per month

The position is open starting September 1, 2013 with duration until June 30, 2015.

Deadline for applications:

Applications received by June 26, 2013 will be assured full consideration. Late applications will be considered continuously until the position is filled.

To apply:

Please send your Ph.D. diploma, structured curriculum vitae (including list of publications with impact factors), cover letter and a letter of recommendation (including a name, telephone number and email address of an academic reference) to: Ms. Tereza Trousilova at trousilova@fbmi.cvut.cz. Please send a copy of your application to roubik@fbmi.cvut.cz. Please provide us with a proof of your English language skills by sending either a certificate of proficiency (CAE, TOEFL or equivalent) or your dissertation in English.

For more information about the NVT and Karel Roubik please see <http://www.ventilation.cz>.

The complete information on the admission process can be found at <http://www.fbmi.cvut.cz/fakulta/uredni-deska>

