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## Multiple post-doctoral positions in the field of modeling, simulation, assessment and optimization of multi-functional materials and structures

The Czech Technical University in Prague - University Center for Energy Efficient Buildings offers nine post-doctoral positions in the field of modeling, simulation, assessment and optimization of multi-functional materials and structures.

Start date: as soon as possible after 21 June 2013, until all positions are filled

Contract duration: until 30 June 2015 (with a critical evaluation after the first year)

## Description

The present project integrates eight different topics, each of which will be supervised by a mentor from the Faculty of Civil Engineering of the Czech Technical University in Prague. The particular topics include:

1. Drying and desalination of historical buildings using hydrophilic mineral wool  
Mentor: Robert Černý (e-mail: cernyr@fsv.cvut.cz)
2. Low-energy building materials  
Mentor: Robert Černý (e-mail: cernyr@fsv.cvut.cz)
3. Modeling of coupled cracking, creep and hygrothermal effects in construction materials  
Mentor: Milan Jirásek (e-mail: Milan.Jirasek@fsv.cvut.cz)
4. Ultra high performance fiber-reinforced concrete in different loading conditions  
Mentor: Petr Konvalinka (e-mail: petr.konvalinka@fsv.cvut.cz)
5. Wood-based materials  
Mentor: Petr Kuklík (e-mail: kuklik@fsv.cvut.cz)
6. Numerical and experimental analysis of concrete performance in irradiated environment  
Mentor: Petr Štemberk (e-mail: stemberk@fsv.cvut.cz)
7. Durability of reinforced cementitious materials  
Mentor: Vít Šmilauer (e-mail: smilauer@cml.fsv.cvut.cz)
8. Micromechanical modeling of thermal and acoustic insulation materials  
Mentor: Jan Zeman (e-mail: zemanj@cml.fsv.cvut.cz)
9. Development of FFT-based solvers for homogenization of periodic media  
Mentor: Jan Zeman (e-mail: zemanj@cml.fsv.cvut.cz)

Interested candidates are invited to send their applications directly to the relevant mentor, using the e-mail address provided above, no later than 31 May 2013.

Additional details are available at the web site provided below.

## Research Fields

Engineering - Civil engineering

## Career Stage

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

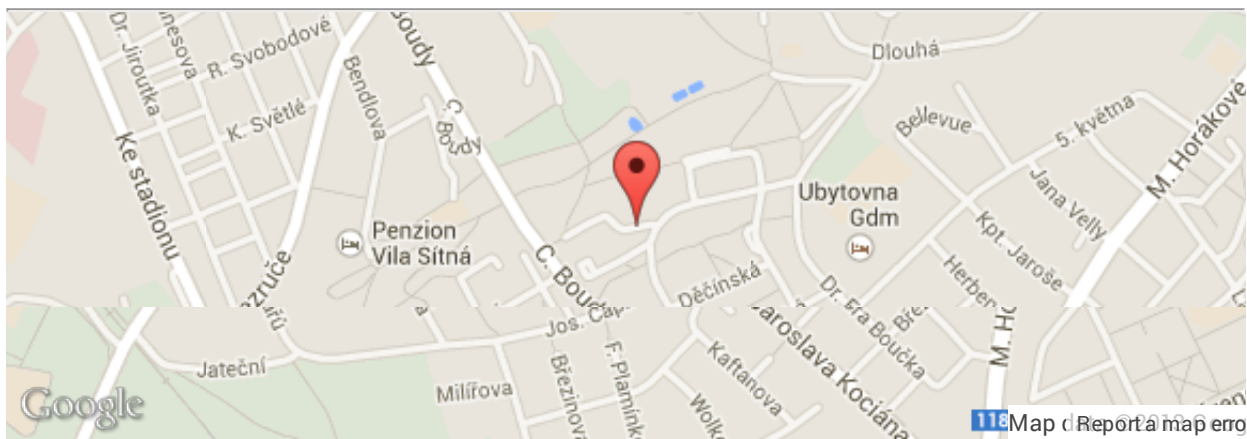
## Research Profile

First Stage Researcher (R1)

## Benefits

- \* a gross salary of 56,000 CZK per month (approximately 2,200 Euro or 2,800 USD),
- \* the coverage of travel expenses of up to 55,000 CZK per year,
- \* the coverage of operating costs of up to 40,000 CZK per year,
- \* a three-month internship at a foreign university or a company.

## Comment/web site for additional job details



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## Other job details

### Job ID

33860560

### Type of Contract

Temporary

### Status

Full-time

### Hours Per Week

40

### Company/Institute

Czech Technical University in Prague

### Country

CZECH REPUBLIC

### City

Kladno

### Postal Code

272 01

### Street

Nám. Sítná 3105

## EU Research Framework Programme

### Is the job funded through the EU Research Framework Programme?

FP7

### Contract number

CZ.1.07/2.3.00/30.0034

## Company/Institute

### Czech Technical University in Prague

UCEEB

Research Laboratory

Nám. Sítná 3105

272 01 - Kladno

CZECH REPUBLIC

email

[zemanj@cml.fsv.cvut.cz](mailto:zemanj@cml.fsv.cvut.cz)<http://...>

## Application details

### Envisaged Job Starting Date

01/07/2013

### Application Deadline

31/05/2013

### Application e-mail

[zemanj@cml.fsv.cvut.cz](mailto:zemanj@cml.fsv.cvut.cz)

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