OPENING ONE POSTDOCTORAL POSITION

Applications are invited for one Postdoctoral Research Fellow in the Centre of Advanced Photovoltaics CTU in Prague to work on the Building Integrated and Building Applied Photovoltaics (BIPV, BAPV).

SHORT DESCRIPTION OF THE PROJECT:
The project combines theoretical approaches represented by advanced nanoscale simulations, laboratory design and fabrication of novel solar cells supported by simulations, and the exploration of complex impact of photovoltaics on urban systems and architecture. The project will link activities at the Czech Technical University in Prague with University of Southampton, UK, a world leader in optoelectronics and photonics.

OBJECTIVES:
The applicant will work within the work package WP5 – Applications. The final goal is to develop and experimentally verify concepts for maximizing the local use of solar electricity within the built environment. The applicant will design low energy architectural concepts with innovative use of BIPV / BAPV, study impacts of rapid increase of PV use on the lifestyle of the city inhabitants and analyse the influence and limits of specific urban fabric on the use of photovoltaic systems. An integral part will be a case study research of top-the-art examples of BIPV applications in cities across Europe with climate similar to the Czech Republic.

JOB REQUIREMENTS:
Successful candidates must have a PhD in Architecture or closely related disciplines. Previous experience with sustainable architecture with emphasis on Solar Architecture, Integrated Design and/or BIPV / BAPV is highly desired. Good knowledge of English, both written and oral, is compulsory.

ABOUT THE GROUP:
The applicant will work in a small team of architects within the Faculty of Architecture CTU (Department of Architectural Design II) and will closely cooperate with a working group within the University Centre for Energy Efficient Buildings (UCEEB) consisting of engineers, building physicists and electrician specialists.