Ústav přístrojové techniky AV ČR, v. v. i.
Královopolská 147, 612 64 Brno
tel.: +420 541 514 111
fax: +420 541 514 402
e-mail: institute@isibrno.cz
http://www.isibrno.cz

Job Information

Job Title: Postdoctoral fellow / Associate scientist

Discipline: Applied Physics / Bio-Medical engineering

Monthly salary: 54 000 CZK

Positions available from: immediately

Category: Academic / Research

We are seeking for exceptional candidates to join our ~€7m research project Gate2μ, cofounded from the European Regional Development Fund, The Ministry of Education, Youth and Sports of the Czech Republic and the Institute of Scientific instruments of the CAS, where we have several vacancies.
The project Gate2μ combines expertise in wave-front shaping technologies, digital holography, fibre optics, and bio-medical photonics in an effort to introduce new imaging modalities deep inside living organisms.
The friendly international team of Gate2μ is located in newly refurbished premises of the Institute of Scientific Instruments, featuring spacious optics laboratory, access to mechanical workshops, small-animal facility and further support from skilled IT and administrative departments. The institute is well connected to the city of Brno with private car park, library and in-house dining facility.

Successful candidates will work on development of new experimental procedures for advanced control of light propagation in optical waveguides and their applications in bio-medical settings. Candidates should have extensive previous research expertise in the general area of Photonics. We are particularly interested in recruiting in one of the focus areas below:

Complex photonics
Fibre Optics
Holography
Biophotonics
Nanophotonics
Bio-imaging (Raman, Light-sheet, Non-linear imaging)
Endoscopic imaging
Instrument construction
Nonlinear optics
Light-matter interactions / optical manipulation

We are looking for candidates with a proven track record of research. Successful candidates will be expected to work under a supervision of a senior expert, contribute to the experimental development of advanced imaging modalities, and contribute to the preparation of high quality publications.

The posts are offered for the duration of three years in the first instance with the possibility to further extend to two more years.

Person specification:
Essential:

- PhD degree in physics or similar with a focus on experimental optics or imaging

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- Very good experimental skills
- Experience of building optical setups
- Ability to work independently as well as in teams
- Good communication skills
- Very good English in speech, understanding and writing
- Interest in working on a cross disciplinary project with bio-medical researchers.

Desirable:

- One previous postdoc period or, alternatively, relevant industrial experience.
- Experience of instrument construction
- Good knowledge of programming for instrument control (Matlab, Labview, Python, C++)
- Experience of one or more of the topics adaptive optics, fiber optics, ultrafast optics or non-linear imaging
- Evidence of high quality research outputs as leading author.

Responsibilities:

- Undertake assigned research activities
- Contribute to publications in high quality research journals
- Present work at domestic and international conferences.
- Assist with project administration
- Participating in the outreach and recruitment activities.

Application Requirements:
Applicants must include with their application:

- Cover letter outlining the candidate's suitability for the role.
- Curriculum Vitae
- Overview of past research activities (1-2 pages)
- Names and contact details of at least two references.

Contacts:
To further discuss the details of these posts, informal inquires may be made to Tomas Cizmar cizmart@isibrno.cz. Please send formal applications to Sona@ISIBrno.cz

Closing Date: 15th December 2017

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