

Job Information

Job Title:	Postdoctoral fellow / Associate scientist
Discipline:	Applied Physics / Bio-Medical engineering
Monthly salary:	54 000 Kc
Position available from:	1st January 2018
Category:	Academic / Research

We are seeking an exceptional candidate to join our ~€7m research project Gate2 μ , 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.

The project Gate2 μ 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 Gate2 μ 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.

The successful candidate 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 work-package focus areas:

Bio-imaging (Raman, Light-sheet, Non-linear imaging)
Endoscopic imaging
Instrument construction

We are looking for a candidate with a proven track record of research. The successful candidate 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 candidate will collaborate with the members of the other teams, who are working on technology development and *in vivo* imaging.

The post is 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
- Expertise in imaging/microscopy.
- 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 biology researchers and possibly medical researchers.

Desirable:

- One previous postdoc period or, alternatively, relevant industrial experience.
- Highly desirable is experience of bioimaging, as well as Raman and fluorescence imaging
- Experience of instrument construction
- Good knowledge of programming for instrument control
- 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 this post, informal inquires may be made to Tomas Cizmar cizmart@isibrno.cz or Johanna Traegaardh johanna@isibrno.cz .

Closing Date: 22nd September 2017

