

## Job Information

<b>Job Title:</b>	Scientist / Work-package leader
<b>Discipline:</b>	Bio-imaging / In-vivo Neuroscience
<b>Monthly salary:</b>	72 000 CZK
<b>Position available from:</b>	1 <sup>st</sup> January 2018
<b>Category:</b>	Academic / Research

We are seeking an exceptional candidate to join our ~€7m research project Gate2 $\mu$ , 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 $\mu$  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 $\mu$  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 significantly enhance our research strength and foster interdisciplinary links across the team and international project partners. Candidates should have experimental research expertise in the general area of Photonics. We are particularly interested in recruiting in one of the work-package focus areas:

Imaging in awake animal models (brain functions, structural connectivity, disease progression)  
In-vivo optogenetics  
(multi-photon) calcium imaging  
electrophysiological recordings  
In-vivo imaging for cancer research

We are looking for a candidate with a strong track record of research and a clear research ambition that fits-in and significantly expands our current portfolio of expertise. The successful candidate will be expected to set up an in-vivo imaging laboratory (featuring confocal/multiphoton microscope budgeted in the project), that will utilise newly developed imaging modalities, allowing for deep in-vivo observations through ultra-narrow fibre-based endoscopes. Further the candidate is expected to lead and supervise a small internally funded team of 3-4 members and contribute to the development of research in the area through the highest quality publications. The post is equivalent to a five-year tenure-track fellowship, the project is fully funded (personnel and equipment), therefore the candidate is not expected to attract any further funding to support the research activities during the duration of the project. Following the successful completion of the project, the candidate will have the opportunity to continue as an independent group-leader at the institute provided he or she will secure sufficient external funding for the associated research activities.



### Person specification:

#### *Essential:*

- Broad experience in in-vivo (ideally brain) optical imaging methods and handling small animal models.
- PhD in a relevant subject.
- Awareness of related European legislation and ethical principles
- Ability to produce research outputs of internationally excellent quality.
- Evidence of recent high quality research outputs as leading or senior author.
- Proven track record of conducting ambitious and cross-disciplinary research projects.
- Excellent communication and interpersonal skills.
- Evidence of ability and willingness to work collaboratively with others.
- Proven track-record in mentoring junior researchers.
- Ability to prioritise and balance competing demands.
- Ability to collaborate with existing members of a research group and learn new topics
- Excellent English (written and spoken)

#### *Desirable:*

- Experience in multiphoton imaging
- Interest to participate in development of new imaging methods
- Experience in project management and administration.
- Successful PhD supervision.
- Experience of public engagement with science.
- Czech language (written and spoken)

### Responsibilities:

- Contribute to the research activities, publish in high quality research journals and present work at major international conferences.
- Contribute to the project leadership and 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)
- Research ambitions and career plan (2-4 pages)
- Names and contact details of at least two references.

### Contacts:

To further discuss the details of this post, informal inquiries may be made to Tomas Cizmar [cizmart@isibrno.cz](mailto:cizmart@isibrno.cz) or Johanna Traegaardh [johanna@isibrno.cz](mailto:johanna@isibrno.cz).

**Closing Date: 13th October 2017**





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