

<http://academicpositions.eu>

<https://www.researchgate.net>

<http://jobs.sciencecareers.org/jobs/neuroscience/europe/>

<http://fr.academicpositions.be>

The Coma Science Group, headed by Pr. Steven Laureys, invites applications for one doctoral position (funded for 4 years, with a 6 months trial period) and a post doctoral position (funded for 2 year with a 6 months trial period). The candidates will be based at the Coma Science Group - GIGA Research Center and Neurology Dept, University of Liège. Positions can start October, 2015.

**The application must include:**

- A one-page statement of motivation and research interests
- Curriculum Vitae
- Copies of educational certificates
- Names and contact details of 2 references
- Two letters of recommendation
- A summary of the masters' thesis

Please remember that all documents should be in English or French language.

Applicants send the required documents or can ask questions to [coma@chu.ulg.ac.be](mailto:coma@chu.ulg.ac.be) before October 1<sup>st</sup>.

**PhD position**

The candidate will be asked to develop and analyze methods and algorithms in medical signals and images mostly coming from patients in disorders of consciousness (coma, vegetative state, minimally conscious state, locked-in syndrome) as well as working with different neuroimaging tools to improve our understanding on consciousness and related disorders.

The appointed researchers will work on one of the following projects:

- Brain modeling and functional connectivity

- EEG and Medical image processing
- Automatic classification of patients

Required diploma:

Successfully or nearly finished MSc or equivalent degree graduates in Physics, Engineering, Mathematics specialized in Medical image and signal processing with excellent grades and a strong interest in conducting research from an interdisciplinary perspective are encouraged to apply.

Expected qualifications:

- Highly motivated candidates with strong interest in clinical applications and willing to use and develop medical image packages.
- Good coding skills in Matlab and one of C++ or Python.
- Good knowledge of Linux OS.
- The candidates should be able to work independently at a multidisciplinary level, while engaging in close internal collaborations
- Team-working abilities and interpersonal skills
- Experience in clinics and in neuroimaging or neurophysiological technique is an advantage.
- Candidates must fluently speak English. A good knowledge of French is an advantage

### **Post doc position**

The Post doctoral researcher will have to develop algorithms and analyze neuroimaging data for brain connectivity modeling and to apply machine learning techniques in the same datasets. Specific topics may range from graph theoretical approaches and describing network structure in damaged brains to detection of new biomarkers for automatic classification of patients with disorders of consciousness. The position is primarily devoted to research, with no formal teaching requirements, but ample opportunity to mentor graduate students.

Candidates should have a PhD (or equivalent) in neuroscience, computer science, or a related discipline, with a strong background in data analysis and programming. Previous experience with brain imaging data analysis is a requirement. Applicants should nonetheless have an outstanding scientific track record with clear evidence of leadership and scholarly output in the form of publications and other achievements.

Expected qualifications:

- Highly motivated candidates with strong interest in clinical applications and willing to use and develop medical image packages.
- Good coding skills in Matlab and one of C++ or Python.
- Good knowledge of Linux OS.
- The candidates should be able to work independently at a multidisciplinary level, while engaging in close internal collaborations
- Team-working abilities and interpersonal skills
- Candidates must fluently speak English. A good knowledge of French is an advantage