



**Post-doctoral fellowship in Translational Neuroendocrinology**  
Laboratory of Neuroendocrinology, GIGA Neurosciences  
University of Liège, Belgium

We are seeking a highly motivated post-doctoral researcher with experience in neurodevelopment and endocrinology to join the research group led by Dr Julie Bakker in the laboratory of Neuroendocrinology at GIGA Neurosciences. The successful candidate will be part of a local research unit composed of three research groups led by Drs Julie Bakker, Anne-Simone Parent and Charlotte Cornil, analyzing the impact of developmental exposure to endocrine disrupting chemicals (EDC) on the neurocircuits underlying sexually differentiated physiological and behavioral endpoints (a total of three post-doctoral fellowships are available). He/she will *de facto* be part of the international and interdisciplinary MERLON consortium funded by a Horizon2020 aiming to decipher the impact of EDC on sexual differentiation and develop new novel approaches models to study EDC.

**Tasks**

The main task will be to evaluate the impact of EDC on the development and functioning of the hypothalamic-pituitary gonadal axis as well as on the neural circuits regulating innate behaviors, such as sexual behavior and aggression.

**Education and expertise:**

The candidate should hold a PhD in neurosciences or a related field. A strong background in neuroendocrinology as well as prior experience with transgenic mouse models is requested, in particularly with the current methodologies used in behavioral neurosciences, i.e. stereotaxic surgeries and in vivo intracerebral injections, in combination with ex vivo histological analyses (in situ hybridization, immunohistochemistry), and neuroimaging.

The candidate should be able to work both independently and as part of a team. The successful candidate will possess a strong track record of publications in good neuroscience and/or endocrinology journals.

Importantly, the candidate should be in a situation of international mobility (that is he/she should not have worked or lived in Belgium for more than 24 months before starting in the lab).

**Contract:**

The fellowship will be up to 3 years (renewal after 1 year upon positive interim evaluation). Financial support is provided by the Horizon Europe program.

**Work environment:**

Our group has a long-standing experience in studying the neuroendocrine and genetic mechanisms underlying the sexual differentiation of the brain. More

recent studies have focused on the neural circuits regulating innate behaviors. To this end, we make use of transgenic mouse models in combination with the latest state-of-the-art techniques, such as in vivo calcium imaging (fiber photometry), optogenetics, and chemogenetics. Additional details can be found on our website:

[https://www.giganeuroendo.uliege.be/cms/c\\_4751420/en/giganeuroendo-research](https://www.giganeuroendo.uliege.be/cms/c_4751420/en/giganeuroendo-research)

The [neuroendocrinology unit](#) is part of the [GIGA Neurosciences](#), a division of the research center called [GIGA-research](#), a major research center in biotechnology where virtually any recent technique applicable to life sciences is available and implemented.

### **Applications**

Send a curriculum and motivation letter with a list of three contacts for recommendation letters to [jbakker@uliege.be](mailto:jbakker@uliege.be) . Informal inquiries are welcome.

### **Starting date**

June 1<sup>st</sup>, 2024