



## Job offer data scientist – image data processing

### Turing Centre for Living Systems

The Turing Centre for Living Systems (CENTURI) is a large, interdisciplinary and interactive research project at Aix-Marseille University, uniting a growing community of biologists, physicists, mathematicians, computer scientists and engineers. The aim of the project is to decipher the complexity of biological systems through the understanding of how biological function emerges from the organization and dynamics of living systems.

CENTURI is seeking a highly motivated research engineer on image data processing to fill the post of *data scientist*, within CENTURI's technology transfer platform. This position will be a central point of data analysis, data sharing and code sharing for our research community.

#### Job duties include, but are not restricted to:

- Provide advice and support to researchers with signal processing and data mining (large data analysis and integration, unsupervised/supervised learning, dimension reduction, statistics, deep learning techniques, etc.)
- Assist in transfer of knowledge between the teams of the CENTURI project
- Have a theoretical understanding of the algorithms used for data analysis; perform independent literature search to keep abreast of appropriate methods and technologies.
- Organize and conduct courses on data analysis for the CENTURI community: PhD students, postdocs, researchers
- Participate in the setup of an infrastructure for data sharing within the CENTURI project
- Participate in the development and maintenance the infrastructure of software sharing and code transfer within the CENTURI project

Image data processing will be at the core of the project. The successful candidate will be part of the data lab team of the CENTURI engineering platform. Your expertise will help shape the data sharing and analysis platform and you will be able to learn from, as well as share your knowledge within the CENTURI community.

#### Your qualifications / expected profile

You have a Master's degree (at least) or a PhD (preferred) in data science (University, engineering school), Computer Sciences or in Physics/Engineering/Applied Physics, with a strong interest and experience in computational developments together with knowledge of image processing and analysis, statistical data modelling and analysis (including multimodal data), signal filtering. Experience in machine learning theory and practice would be a strong asset.





You have a strong experience (at least 5 years with a Master's degree, at least three years with a PhD) in research support or research in biological data analysis. Experience in a service facility is strongly advantageous. Teaching experience would be a plus.

Experience in professional software engineering and development, as well as data analysis and data sharing strategies are beneficial. Ideally, the candidate will be familiar with common programming languages, including Python, Java, C/C++, as well as proficient in a statistical analysis software, such as R or MatLab. In addition, the candidate will have experience with neural networks training and implementation (pytorch, tensorflow, ..).

You will have strong team-playing abilities and be able to interact with researchers from many fields, including biology, physics, mathematics and computer science. A friendly, outgoing personality and excellent communication skills are required, as is the ability to work independently.

The working language of CENTURI is English, but proficiency in French is beneficial.

### **What we offer**

CENTURI offers a vibrant, highly interactive working environment with the ability to work with researchers and engineers from many disciplines.

CENTURI offers a two-year contract from Aix-Marseille University (renewable). The salary will be based on Aix-Marseille University's salary scale, with a gross monthly salary between € 1,870 and € 3,500 (depending on profile and experience).

If you are interested, please apply online at the following address:

<http://centuri-livingsystems.org/recruitment/>

Expected start date: from May 2021

Application deadline: once the vacancy is filled

Applications should include:

- A CV, including a list of publications
- A cover letter, describing your past experience with data analysis
- Two recommendation letters

