

## Postdoc or Research Engineer; « Image and text association»

Laboratory: institute of Mathematics of Marseille (I2M), Aix Marseille University

Duration: 12 months

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### Context

Different works on « captioning », automatic generation of captions for images, are conducted at the I2M for various applications. This offer is part of industrial collaborations within a major research project involving researchers from various fields.

### Mission

Under the responsibility of Badih Ghattas, associate professor specialized in statistics and machine learning within the I2M statistics team, you will take charge, in accordance with the procedures, of the development and fine-tuning of deep learning techniques adapted to the context of a research project. These missions will consist, in addition to the research aspect, in carrying out various tasks such as:

- Data preparation, preprocessing and encoding of images and text
- Implementation of some data augmentation techniques
- Development of captioning models
- Performance evaluation, quality control
- Packaging of the developed procedures

The candidate will participate in regular meetings with the partners involved in the project, in Marseille and possibly in Paris and Pau. He will also participate in publications relating to the work carried out

### Competences

- Python, keras, tensorflow, NLP tools
- Artificial Intelligence for images and text
- Data Analysis
- User Interface development

### Profile

- Engineer with 2 years' experience in deep learning for images and text, or PhD in computer science on topics related to deep learning and/or NLP,
- Good skills in Python, Keras, Tensorflow and possibly R.

- Experience: at least 2 years, or PhD.
- Full time job
- 12 months Contract
- Salary: 2600 - 3 000 € Before taxes/month
- Date of employment: As soon as possible

*For any application, send CV, cover letter, references and letters of recommendation.*