

## Postdoc/PhD-research Eng position in Data Science. Project AStERiCs: Statistical learning for large-scale unsupervised data representation and classification

**Starting date:** september-november 2018

**Duration:** 14 months

**How to apply :** send your complete CV (including a full publication list and if possible a link to your PhD thesis) to [faicel.chamroukhi@unicaen.fr](mailto:faicel.chamroukhi@unicaen.fr) and [Antoine.Channarond@univ-rouen.fr](mailto:Antoine.Channarond@univ-rouen.fr)

# Position filled

The candidate will participate in the creation of a data science platform dedicated to unsupervised classification of high-dimensional data. The first step concerns prototyping developed algorithms by the members of the project AStERiCs <https://asterics.lmno.cnrs.fr>, their integration into this platform on various real applications. These are unsupervised classification algorithms based on latent variable models. The second step is to integrate the algorithms that will be developed during the project. A part of the work will be carried out in collaboration with the LMNO lab on distributed regularized mixture models with environmental applications / genomic sequences.

The main missions are:

- (i) Developing unsupervised learning models
- (ii) Prototyping unsupervised learning algorithms
- (iii) High performance distributed cloud computing
- (iv) Web integration and interfacing with the platform.

- **Required Profile :**

- PhD in statistics/statistical learning or computer science with specialization in machine learning
  - Experience in latent data models and complex data analysis
  - Experience in software development
  - Skills in working on real-world data and applications
  - Programming skills in Matlab/R/Python
  - Skills on big-data platforms (Hadoop/Spark, MapReduce), Cloud computing, OLAP, web technologies
- **Hosting lab:** The lab of mathematics Raphael Salem, UMR CNRS
  - **Salary:** ~ 2770€ gross (~ 2250€ nets) per month