



## Two-year postdoc position in machine learning/signal processing in Toulouse

### Description of work

Applications are invited for postdoc positions part of project **FACTORY** (*New paradigms for latent factor estimation*), funded by the **European Research Council** under a Consolidator Grant (2016-2021) and coordinated by Cédric Févotte (CNRS).

The scientific scope of the project is **matrix factorisation, dictionary learning, and deep learning**, for data analysis at large, with an emphasis on statistical estimation in mean-parametrised exponential models, non-convex optimisation, stochastic & approximate inference, and applications in signal processing (e.g., audio, hyperspectral imaging) & data mining (e.g., collaborative filtering).

The successful candidate will have the flexibility to choose a research topic within the range of the project, according to his/her experience and preferences. He will enjoy an inspiring and resourceful environment, with the possibility of travelling to conferences and visiting other national or international labs.

More information at <http://projectfactory.irit.fr>

### Host institution and place of work

The successful candidates will be employed by the **Centre National de la Recherche Scientifique** (CNRS, the National Center for Scientific Research). CNRS is the largest state-funded research organisation in France, involved in all scientific fields. FACTORY is hosted by the **Institut de Recherche en Informatique de Toulouse** (IRIT), a joint laboratory of CNRS and Toulouse universities & engineering schools. IRIT is among the largest computer & information sciences labs in France. Toulouse is the fourth-largest city in France, the capital of the Occitanie region in the South-West of France, and is praised for its high quality of living. The physical location for the project is the ENSEEIHT campus, in a lively neighbourhood of the city center.

### Candidate profile and application

Prospective applicants should have a PhD in **machine learning, signal processing, computational statistics**, or a related discipline, good programming skills, and good communication skills in English, both written and oral. The net monthly salary is 2400€ for researchers with less than 2 years of professional experience after the PhD, and starts from 3000€ in other cases. The position comes with health insurance & other social benefits.

Applicants are requested to send a CV, a brief statement of research interests and the contact details of two referees in a single PDF file. Applications will be collected until early June 2019 and then on until a suitable candidate is found.

Applications and informal enquiries are to be emailed to [cedric.fevotte@irit.fr](mailto:cedric.fevotte@irit.fr)