

PhD Position

Position Profile:

Degree/Master in Bioinformatics, Data Science, Statistics, Mathematics or related fields. Experience in transcriptomics, gene regulatory networks or neuroanatomy will be valued. Proficiency in English is required; also, in R, Python... Strong skills in machine learning and Bayesian networks are necessary.

Description of Work:

The successful candidate will work at Computational Intelligence Group (<http://ciq.fi.upm.es/>) at the School of Computer Science of the Technical University of Madrid in Madrid, Spain. He/she will undertake a multidisciplinary project to understand human brain transcriptome data (coming from the Allen gene expression brain atlas). There are three main objectives: estimate density profiles of each cell type from the transcriptome (regression models), create transcriptomic brain regions which are molecularly similar (probabilistic model-based clustering), and build gene regulatory networks (Bayesian networks). This project is part of the European Union's Horizon 2020 Flagship Human Brain Project (Specific Grant Agreement No. 785907).

Duration of contract:

21 months. From July 20, 2018 to March 31, 2020

(gross) Salary:

Up to €24000 per annum (full time), depending on skills and experience

Start date:

July 20, 2018

Application deadline:

July 16, 2018

Contact:

Interested candidates should send their CV to Concha Bielza (mcbielza@fi.upm.es) and Pedro Larrañaga (pedro.larranaga@fi.upm.es).