2018-00899 - Computational Advanced Diffusion MRI

General Information
- Theme/Domain: Optimization, Learning and Statistical Methods
- Town/city: Sophia-Antipolis
- Inria Center: CRI Sophia Antipolis - Méditerranée
- Starting date: 2018-10-01
- Duration of contract: 2 years
- Deadline to apply: 2018-10-31

Contacts
- Inria Team: ATHENA
- Recruiter: Deriche Rachid / rachid.deriche@inria.fr

About the research centre or Inria department
Inria, the French National Institute for computer science and applied mathematics, promotes “scientific excellence for technology transfer and society”. Graduates from the world’s top universities, Inria’s 2,700 employees rise to the challenges of digital sciences. With its open, agile model, Inria is able to explore original approaches with its partners in industry and academia and provide an efficient response to the multidisciplinary and application challenges of the digital transformation. Inria is the source of many innovations that add value and create jobs.

Context
CoBCoM has the overall goal to develop new generation of computational models and methods for identifying and characterizing the structural and functional connectivities of the brain, while integrating complementary non invasive brain imaging modalities as diffusion MRI, EEG and MEG. Clinical applications to high-impact diseases are also considered.

To know more: The article Computational brain connectivity mapping: A core health and scientific challenge published in Medical Image Analysis, MedIA 33(1), Oct. 2016, Pages 122-126 summarizes some challenges and target areas for CoBCoM and the rationale behind them.

Assignment
Engineer Position up to 2 years is offered within the framework of the European Research Council (ERC) Advanced Grant CoBCoM: Computational Brain Connectivity Mapping. started on Sept. 1st 2016 for a duration of 5 years.

Main activities
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Skills
Required Diploma and experience:
Applicants for an Engineer Position must have an engineer diploma from High Engineering School and some experience/knowledge in computational brain imaging using dMRI, EEG,MEG, with a strong experience in programming using Python, C, C++, Matlab and building software libraries.

Benefits package
- Restaurant on site
- Financial participation for public transport
- Social and sporting activities
- French courses

Remuneration
- Targeted hiring date: ASAP
- Location: Sophia Antipolis Site
- Gross Salary per month: depends on the experience

Warning: you must enter your e-mail address in order to save your application to Inria. Applications must be submitted online on the Inria website. Processing of applications sent from other channels is not guaranteed.

Team web site: https://team.inria.fr/athena/