2017-00135 - Agent-based modeling of tissues

Renewable contract : Oui
Level of qualifications required : PhD or equivalent
Fonction : Temporary scientific engineer

About Inria

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.

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.

Assignment

Assignments :
With the help of Dirk Drasdo, the recruited person will be taken to construct and execute agent-based models of tissues.

Main activities

Main activities :
- Development of agent-based models
- Coding the models
- Testing the code
- Running agent-based model simulations on different applications in biotechnology and medicine
- Communication with biologists and clinicians

Skills

Technical skills and level required :
- Sound knowledge in mechanics
- Sound knowledge in modeling biological systems
- Ideally knowledge on modeling with agent-based models
- Base knowledge of numerics
- Good coding skills in C/C++
- Linux, windows

Languages : English
Other valued appreciated : Quelques connaissances du français et de l'allemand

Benefits package

- Subsidised catering service

General Information

- Theme/Domain : Modeling and Control for Life Sciences
- Scientific computing (BAP E)
- Town/city : Paris
- Inria Center : CRI de Paris
- Starting date : 1/1/18
- Duration of contract : 10 months
- Deadline to apply : 3/31/18

Contacts

- Inria Team : MAMBA
- Recruiter : Drasdo Dirk / dirk.drasdo@inria.fr

Conditions for application

Defence Security :
This position is likely to be situated in a restricted area (ZRR), as defined in Decree No. 2011-1425 relating to the protection of national scientific and technical potential (PPST). Authorisation to enter an area is granted by the director of the unit, following a favourable Ministerial decision, as defined in the decree of 3 July 2012 relating to the PPST. An unfavourable Ministerial decision in respect of a position situated in a ZRR would result in the cancellation of the appointment.

Recruitment Policy :
As part of its diversity policy, all Inria positions are accessible to people with disabilities.

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.
• Partially-reimbursed public transport

Remuneration
Salary based on experience, full benefits