2017-00135 - Agent-based modeling of tissues

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

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
- Partially-reimbursed public transport

Remuneration
Salary based on experience, full benefits