



Equipe *MediCIS*

LTSI UMR U1099 • INSERM/Université de Rennes I  
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## Opened research position in Surgical Data Science in Functional Neurosurgery

The MediCIS/LTSI lab, INSERM/Université de Rennes 1 is looking for a **research fellow**, in the context of a project in “Model based Computer Assisted Functional Neurosurgery”. The main objective of this project is to develop an innovative strategy based on data analysis and models for helping decision-making process during functional neurosurgery including Deep Brain Stimulation and epilepsy surgery.

### Environment

With a background in computer science, data analysis, bioengineering or related fields, the successful candidate will contribute to research and development in the context of Model based Computer Assisted Functional Neurosurgery. During her/his work, the selected candidate will have to propose innovative methodologies. He/she would have to supervise students and/or engineers, communicate and work with the international partners and collaborators on this topic, look for opportunities for funding and technological transfer of the developed technologies.

He/she will be considered as a full member of the MediCIS team. MediCIS team is part of the LTSI and the “Institut national de la santé et de la recherche médicale” (INSERM), which is the leading research institute in medicine in France. It is composed of 5 full-time professors and researchers. Its research activities include medical image processing and computer assisted interventions. The team is located at the Medical School and has direct collaborations with neurosurgeons, radiologists, and neurologists from the University Hospital. We refer the candidates to the MediCIS website for more information: <http://medicis.univ-rennes1.fr>

### Competence and Profile

The candidate should have a PhD degree and a strong background and experience in data analysis and computer programming with a proven record in research. Experience and publications related to medical image processing, machine learning, atlases, statistical analysis, or computer vision are a must. Programming skills are required. The position is funded from May 2016. Location: MediCIS team, Laboratory of Signal and Image Processing, Medical University, Rennes, France.

Send applications to: Pierre Jannin, INSERM [Pierre.Jannin@univ-rennes1.fr](mailto:Pierre.Jannin@univ-rennes1.fr) before end of **February 2016**

**Keywords:** Data mining, Medical image processing, machine learning, C++, Python, VTK, ITK, Slicer