2018-00246 - Internship in Mechatronic “Design of robots for archaeology”

Contract type: Internship agreement  
Level of qualifications required: Graduate degree or equivalent  
Fonction: Internship Engineering

Context
We are collaborating with the HIP institute to develop novel robotic approaches for archaeology. The objective of this internship is to help us to design a new centimeter scale robot for minimally invasive exploration.

- http://www.hip.institute/

Assignment
The intern will work on some sub-parts of the system to be determined, depending on the current state of the project.

Main activities
- search and develop innovative mechanical solutions for different requirements of the robot;  
- evaluate the performance, by making prototypes combining different manufacturing methods, like high resolution 3D printing and conventional manufacturing (CNC milling).

Skills
- Good mechanical design with SolidWorks (Design, Drawing, Simulation, FEM)  
- 3D printing and conventional manufacturing  
- General electronic knowledge  
- Arduino programming (optional)

Benefits package
- Subsidised catering service  
- Partially-reimbursed public transport

General Information
- Theme/Domain: Robotics and Smart environments  
  IT Technical and production engineering (BAP E)  
- Town/city: Villers-lès-Nancy  
- Inria Center: CRI Nancy - Grand Est  
- Starting date: 3/5/18  
- Duration of contract: 6 months  
- Deadline to apply: 2/28/18

Contacts
- Inria Team: LARSEN  
- Recruiter: Renaud Lucien / lucien.renaud@inria.fr

The keys to success
- Student in Engineer school or DUT specialized in mechanics  
- Proactive  
- Meticulous and exigent (soldering, assembling small parts)  
- Good communication skills in English

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.