2018-01013 - Research Engineer / Robotics and software engineering

Level of qualifications required: Graduate degree or equivalent
Function: Temporary scientific engineer
Level of experience: Recently graduated

Context
This position is part of the ResiBots ERC project (http://www.resibots.eu), which aims at proposing novel trial-and-error learning algorithms (machine learning and reinforcement learning) so that robots can continue their mission even if they are damaged. All the algorithms are tested on real robots. Many examples of experiments are available online: http://members.loria.fr/jbmouret/videos.html

This project is funded by the European Research Council (ERC) from May 2015 to April 2020. The team is made of one research director (JB Mouret), 2 post-doctoral researchers, 2 engineers, 2 PhD students, and 2-3 master students.

The objective of this position is to port the learning algorithms developped in the team to a mobile manipulator (Kuka mobile base and Dynamixel Pro arm).

Assignment
The hired engineer will design and perform experiments so that a mobile manipulator can learn compensatory strategies when it is damaged.

Main activities
Main activities:
- develop code for the robots of the team
- help the members of the team to perform their experiments
- maintain and develop the documentation

Skills
Technical skills and level required:
- good C & C++ skills
- ROS
- "improvise" solutions when needed

Languages:
- English (English is the official language of the team)
- basic knowledge of French is useful (but not required)

Benefits package
- Subsidised catering service
- Partially-reimbursed public transport
- Social security
- Paid leave
- Flexible working hours

Remuneration
From 2632,00€ brut per month