Benefits package
- Reasonable English skills (written and spoken)
- Ability to work as a teammate with other researchers
- Theoretical knowledge of Bayesian models
- Familiarity with CUDA and Boost libraries
- Experience using the Robotics library ROS

The following qualifications would be an advantage:
- Engineer with R&D experience or PhD in Computer Science, Robotics or closely related fields.

Skills
- Good theoretical and practical background in one of the following domains: Robotics, Multi-sensors perception or Scene Understanding.
- Good skills in C/C++, Python and Linux.

The keys to success
The ideal candidate is highly autonomous, with a strong interest in the Autonomous Vehicle field and all the associated technologies. Strong communication skills and teamwork abilities needed.

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.

The following qualifications would be an advantage:
- Experience using the Robotics library ROS
- Familiarity with CUDA and Boost libraries
- Theoretical knowledge of Bayesian models
- Ability to work as a teammate with other researchers
- Reasonable English skills (written and spoken)

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

General Information
- Theme/Domain: Robotics and Smart environments
- Software engineering (BAP E)
- Town/City: Montbonnot
- Inria Center: CRI Grenoble - Rhône-Alpes
- Starting date: 2018-04-01
- Duration of contract: 3 years
- Deadline to apply: 2018-06-30

Contacts
- Inria Team: CHROMA
- Recruiter: Laugier Christian / christian.laugier@inria.fr

About the research centre or Inria department
Grenoble Rhône-Alpes Research Center groups together a few less than 800 people in 35 research teams and 9 research support departments.

Staff is localized on 5 campuses in Grenoble and Lyon, in close collaboration with labs, research and higher education institutions in Grenoble and Lyon, but also with the economic players in these areas.

Present in the fields of software, high-performance computing, Internet of things, image and data, but also simulation in oceanography and biology, it participates at the best level of international scientific achievements and collaborations in both Europe and the rest of the world.

Context
The Inria research team Chroma is involved in several academic and industrial projects in the field of Autonomous Vehicles. The proposed R&D work has to be performed in the scope of a French FULL project "STAR", in cooperation with several companies and laboratories. The objective of INRIA in the project is to develop, to experimentally validate and to demonstrate the capabilities of an Embedded Perception in the context of Mobile Robotics and Autonomous Vehicles applications. Several well published and patented results have already been obtained in the scope of this project.

Assignment
A one year (re-newable) Research & Development Post-doc or Engineer position is available at Inria Grenoble Rhône-Alpes, in the scope of the STAR project. The objective is to customize the team perception systems, for an experimental autonomous bus of the project, with different sensors and configurations.

Main activities
The recruited Post-doc / engineer will work within a team of 4 engineers already working on different projects, with occasional interactions with some PhD students and researchers of the Chroma team. The main task will be to understand the team perception algorithms, and to propose new bricks on navigable space, navigability near pedestrians, test and validation methods or any subject related to the understanding of the scene for autonomous vehicle in a city. A Gazebo simulation have to be built for the project, including bus and area where the project will be tested in real life. The implementations and the experiments will be performed using the ROS framework, Gazebo simulation and multiple experimental platforms (bus, shuttle, Renault Zoe). The recruited engineer will also contribute to the improvement of the experimental platform of the team, and he will participate to some scientific publications, industrial conferences or various demonstrations.

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.

The keys to success
The ideal candidate is highly autonomous, with a strong interest in the Autonomous Vehicle field and all the associated technologies. Strong communication skills and teamwork abilities needed.

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.