Offer #2023-07028

Internship in informatics with proficiency in English

Contract type: Internship
Level of qualifications required: Graduate degree or equivalent
Other valued qualifications: Master in informatics with proficiency in English
Function: Internship Support functions

Context

Context:
This internship contributes to a European project which involves partners from both industry and academia of various European countries.

The goal of the project include:
1- The promotion or development of design rules and interoperability standards,
   - to ensure the interoperability of collaborative heterogeneous assets
   - to support secure sharing of resources and exchange of data and information between those systems and platforms for the benefit of the mission execution and performance in systems of systems contexts
   - to offer mission system software scalability to speed up integration of new capabilities
   - to contribute to the interoperability of mission system execution platforms
   - to define functional and physical interfaces of effectors

2- To define functional interfaces of sensors the assessment of questions brought by the implementation of AI technologies, including:
   - Airworthiness and safety issues with trustable AI-based functions
   - European autonomy over AI engineering tools, algorithm libraries and methods enabling the use of AI in military assets
   - Compatibility of tools and processes for the development, the validation, the qualification and the certification of AI-driven operational services

The internship generally requires working on a state-of-the-art analysis of Artificial Intelligence and related technologies in order to identify appropriate tools and libraries for autonomy.

Assignment

Assignments:
The internship includes in-depth analysis of selected software libraries. Specific metadata information associated to each software under investigation needs to be identified and registered, including cybersecurity risks related to the usage of each software library. Additionally, testing of Artificial Intelligence functions and tools may be required. An investigation of frameworks and models will be conducted to identify the accurate framework that can ensure the future model of the system.

The challenges of the autonomous environment will be analyzed to provide an accurate solution concerning the needs defined in the project. This may involve editing and modifying the software library.

Main activities

Main activities:
- Desktop research of software tools and libraries in AI
- Creating state-of-the-art analysis
- Performing data and functional analysis
- Software testing
Skills

We are looking for a motivated student currently in Master degree or engineering cursus. The following skills are required:

- Knowledge in Artificial Intelligence in particular machine learning and deep learning approaches
- Programming skills – Python, Scikit-learn library
- Good English
- Working with MS Office

Benefits package

- Subsidized meals
- Partial reimbursement of public transport costs
- Professional equipment available (videoconferencing, loan of computer equipment, etc.)
- Social, cultural and sports events and activities
- Access to vocational training

General Information

- Town/city: Paris
- Inria Center: Siège
- Starting date: 2024-02-01
- Duration of contract: 6 months
- Deadline to apply: 2024-01-12

Contacts

- Inria Team: MIS-DEFENSE (DIRECTION)
- Recruiter: Arunraja Emilie / emilie.arunraja@inria.fr

About Inria

Inria is the French national research institute dedicated to digital science and technology. It employs 2,600 people. Its 200 agile project teams, generally run jointly with academic partners, include more than 3,500 scientists and engineers working to meet the challenges of digital technology, often at the interface with other disciplines. The Institute also employs numerous talents in over forty different professions. 900 research support staff contribute to the preparation and development of scientific and entrepreneurial projects that have a worldwide impact.

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.

Instruction to apply

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.