Type de contrat : CDD  
Niveau de diplôme exigé : Thèse ou équivalent  
Fonction : Post-Doctorant

A propos du centre ou de la direction fonctionnelle

The Inria Lille - Nord Europe Research Centre was founded in 2008 and employs a staff of 320, including 280 scientists working in fourteen research teams. Recognised for its outstanding contribution to the socio-economic development of the Hauts-de-France region, the Inria Lille - Nord Europe Research Centre undertakes research in the field of computer science in collaboration with a range of academic, institutional and industrial partners.

The strategy of the Centre is to develop an internationally renowned centre of excellence with a significant impact on the City of Lille and its surrounding area. It works to achieve this by pursuing a range of ambitious research projects in such fields of computer science as the intelligence of data and adaptive software systems.

Building on the synergies between research and industry, Inria is a major contributor to skills and technology transfer in the field of computer science.

Contexte et atouts du poste

This job offer is part of the Artificial Intelligence chair held by O-A. Maillard and Ph. Preux, funded by public institutions (MEL, I-Site ULNE, Inria, Université de Lille). This research chair is part of the Scool team-project at Inria, and UMR CRIStAL (CNRS, University of Lille, France). Scool has activities ranging from pure research to collaborations with and transfer to companies or other users of RL.

This chair focusses on the study of algorithms for sequential decision making under uncertainty, in particular reinforcement learning.

Scool is a research group currently made of about 30 people, among which 20 Ph.D. students, 2 post-docs, and 2 engineers. This job offer is one among a dozen other post-doc, engineer, and Ph.D. student positions open in 2021 in Scool.

The recruitee will mainly work with O-A. Maillard and Ph. Preux, but beyond that, he/she will be able to collaborate with any member of Scool. Support for travelling e.g. to conferences or other scientific meetings is provided.

Mission confiée

The goal of this post-doc is to contribute to the state of the art of the research in reinforcement learning. The work will be essentially at the fundamental level: design of new algorithms, analysis of the behavior of algorithms, implementation and experimental study and assessment, ...

For more information regarding Scool research interests, please visit our website https://team.inria.fr/scool.

Topics of importance in Scool today are: non stationary RL environments, risk-aware RL, RL without a simulator, RL with scarcity of training data, applications in health, sustainable development, and e-learning.

Aside research, the recruitee may take part of other Scool activities such the organization of scientific events (workshop, summer school, tutorial, ...).

Principales activités

The recruitee will perform standard research activities, involving reading scientific publications, proposing new ideas related to the project, arguing, developing them, presenting them informally to partners, and also through seminars and research group meetings, writing scientific publications and submit them to top conference and journals of the field.

Compétences

Technical skills and level required: proficiency in python, pytorch, machine learning packages. Skills in C/C++ will also be appreciated.

Everything will be implemented in Linux/Ubuntu, in an open source software state of mind.

Ability to work, interact, and collaborate with other researchers (in English)

Avantages

- Subsidized meals
- Partial reimbursement of public transport costs
- 7 weeks of annual leave + 10 extra days off due to RTT (statutory reduction in working hours) + possibility of exceptional leave (sick children, leave in case of family emergencies, ...)
moving home, etc.)
- Possibility of teleworking (after 6 months of employment) and flexible organization of working hours
- Professional equipment available (videoconferencing, loan of computer equipment, etc.)
- Social, cultural and sports events and activities
- Access to vocational training
- Social security coverage

### Rémunération
Gross monthly salary (before taxes) : 2 653 €

**Attention**: Les candidatures doivent être déposées en ligne sur le site Inria. Le traitement des candidatures adressées par d'autres canaux n’est pas garanti.