



Offer #2024-08382

Temporary scientific engineer / Numerical optimization, machine learning and statistical methods

Contract type : Fixed-term contract

Level of qualifications required : Graduate degree or equivalent

Fonction : Temporary scientific engineer

Context

The successful candidate will join the Sierra project team (<https://www.di.ens.fr/sierra/>) within the Inria Paris (<https://www.inria.fr/en/inria-paris-centre>) to work under the supervision of Adrien Taylor and Aymeric Dieuleveut (<http://www.cmap.polytechnique.fr/~aymeric.dieuleveut/>), professor at Ecole Polytechnique (Palaiseau).

Assignment

The successful candidate will

- implement and compare different distributed numerical optimization paradigms for statistical learning
- accurately study the selected algorithms,
- participate in developing and maintaining the PEPit (<https://pepit.readthedocs.io/>) software package, including by adding functionalities related to learning.

Main activities

- Implementation and benchmark of numerical optimization algorithms.
- Software maintenance and development.
- Read scientific reports.
- Write scientific reports.

Skills

Technical skills and level required: master's level in computer science, mathematics, applied mathematics, or engineering.

Languages: English.

Relational skills: easy communication, sociable with an appetite for working in a group.

Additional skills appreciated: rigorous, organized, curious, autonomous, proactive and dynamic.

A specialization in optimization, machine learning, statistical learning or game theory is appreciated. Research experience is a plus.

Benefits package

- Subsidized meals
- Partial reimbursement of public transport costs
- Leave: 7 weeks of annual leave + 10 extra days off due to RTT (statutory reduction in working hours) + possibility of exceptional leave (sick children, moving home, etc.)
- Possibility of teleworking 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

General Information

- **Theme/Domain** : Optimization, machine learning and statistical methods
Scientific computing (BAP E)
- **Town/city** : Paris
- **Inria Center** : [Centre Inria de Paris](#)
- **Starting date** : 2025-02-01
- **Duration of contract** : 7 months
- **Deadline to apply** : 2024-12-19

Contacts

- **Inria Team** : [SIERRA](#)
- **Recruiter** :
Taylor Adrien / adrien.taylor@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.