Offer #2025-08780

Development of components for a new generation of mathematical proof assistants

Contract type : Fixed-term contract

Renewable contract : Yes

Level of qualifications required : PhD or equivalent

Fonction : Temporary scientific engineer

Level of experience : Recently graduated

Context

The candidate will join the Malinca ERC team spanned over Paris, Nancy, Nice and Madrid.

Assignment

The recruited person will be in charge of developing components for a new generation of proof assistants devoted to the machine-based validation of mathematical works.

Main activities

Main activity: proof assistant design, software architecture, implementation

Skills

The typical expected programming experience is in Haskell, OCaml, Agda, Coq, Lean, C++, Rust, ...

A general background in mathematics is expected. Knowledge in the foundations of mathematics (type theory, set theory, topos theory, ...) is welcome.

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

General Information

- **Theme/Domain :** Proofs and Verification
  Software engineering (BAP E)
- **Town/city :** Paris
- **Inria Center :** Centre Inria de Paris
- **Starting date :** 2025-05-01
- **Duration of contract :** 3 years
- **Deadline to apply :** 2025-04-30

Contacts

- **Inria Team :** PICUBE

- **Recruiter :**
  Herbelin Hugo / Hugo.Herbelin@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.