Possible topics of research include (but are not limited to):

- Cryptography-based strategies to improve the security of privacy-preserving AI systems.
- Inference methods for privacy assessment.
- Design and development of the TRUMPET platform and its supporting algorithms.

Inference methods for privacy assessment

The recruited PhD student will collaborate with colleagues in the MAGNET team and the TRUMPET project consortium in general. Part of the work may involve travel to other partners.

The recruited PhD student will contribute to the research of the TRUMPET project and the MAGNET project in general. Part of the work may involve travel to other partners.

If the research features a prototype, it will contribute to the project's open source library and may be supported by engineers in the team.

Possible topics of research include (but are not limited to):

- Cryptography-based strategies to improve the security of privacy-preserving AI systems.
- Inference methods for privacy assessment.
- Design and development of the TRUMPET platform and its supporting algorithms.

Principal activities

- Contribute to the research of the TRUMPET project.
- Collaborate with other MAGNET and TRUMPET team members.
- Disseminate research results.
**Compétences**
The ideal candidate will have the following skills:
- Good mastery of English
- A strong background in computer science and mathematics.
- Subject matters which will be needed during the research include (but are not limited to) machine learning, statistics, cryptography, distributed systems, constraint programming.
- Good programming skills (e.g., C/C++ or python) and supporting tools.
- Relational skills, e.g., working in a team, effective reporting and communication with all involved stakeholders.

**Avantages**
- 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

**Rémunération**
1st and 2nd year: 2051 € gross monthly salary (before taxes)
3rd year: 2158 € gross monthly salary (before taxes)

**to apply/ lists the minimum information desired (which is more than what is strictly required by the online submission platform).**

**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.**

**Consignes pour postuler**
CV + application letter + recommendation letters + List of publications
Academic transcripts, thesis, project report
Sécurité défense:
Ce poste est susceptible d’être affecté dans une zone à régime restrictif (ZRR), telle que définie dans le décret n°2011-1425 relatif à la protection du potentiel scientifique et technique de la nation (PPST). L’autorisation d’accès à une zone est délivrée par le chef d’établissement, après avis ministériel favorable, tel que défini dans l’arrêté du 03 juillet 2012, relatif à la PPST. Un avis ministériel défavorable pour un poste affecté dans une ZRR aurait pour conséquence l’annulation du recrutement.

Politique de recrutement:
Dans le cadre de sa politique diversité, tous les postes Inria sont accessibles aux personnes en situation de handicap.