

Move securely within the cyberworld

itrust consulting s.à r.l.

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## R&D specialist(s) in Computer Science

itrust consulting is looking for highly motivated candidates (senior / junior), driven by excellence and eager to take on exciting and challenging scientific projects at the intersection of fundamental research and applied industrial research, aimed at creating practical and efficient solutions.

itrust consulting is a leading actor in information security in Luxembourg, specialized in providing security services such as consultancy, technical and organizational audits, technical expertise, research and development (R&D) and best practices-based security training in a dedicated training centre. Since its inception, itrust consulting has been consistently involved in national and European R&D projects (FNR, ESA, H2020, FP7, CELTIC) through research partnerships with industrial and academic entities and continues to play an instrumental role in projects ranging from cryptography to intrusion detection systems.

The R&D department of itrust consulting is specialized, among other things, in the design and analysis of cryptographic systems, quantum computing, information and coding theory, algorithms and protocols, secure coding and software development, risk assessment, intrusion detection and penetration testing.

You will be working with highly skilled colleagues holding PhDs and Masters in similar areas. If this sounds like fun to you and you would like to learn more, get in touch with us!

### Context

itrust consulting has openings for motivated candidates, specialized in software development and ideally information security with a focus on cryptography, preferably with prior experience in R&D projects. The candidate would have the opportunity to participate in exciting and challenging R&D projects and ICT development activities of itrust consulting.

### Your role and tasks

- Carry out R&D activities in one or more of the following areas of work:
  - classical/quantum/post-quantum cryptography and quantum computing;
  - software engineering;
  - security software verification and validation;
  - unsupervised learning algorithms;
- Detect, document, and resolve internal and external security incidents as part of the ICT team;
- Execute development tasks related to the ICT environment and/or support development projects in the R&D department.

**Profile of the candidate**

- An MSc in Computer Science and/or Mathematics, Physics, Electrical Engineering or in a related topic;
- Curious, committed, rigorous, capable of critical thinking, autonomous, proactive, capable of working independently and within teams;
- Proven research experience (publications, awards and other relevant achievements) considered as an advantage;
- Experience in \*nix system administration (ideally Linux-based environments) considered a plus;
- Prior programming experience, e.g. in Java, C/C++, Rust, Python;
- Expertise in security engineering and information security mgt. are considered an advantage;
- Fluent written and verbal communication skills in English (French, Luxembourgish and German would be an advantage);
- Analytical and synthesis skills for writing technically correct, convincing, and easy-to-understand reports;
- Knowledge of Microsoft Office tools (e.g. Word, Excel and PowerPoint) and ideally LaTeX.

**What we offer you at itrust consulting**

- An international environment and the opportunity to collaborate within a like-minded R&D and ICT team;
- An IT ecosystem convenient for teleworking and flexible working hours;
- The right place for impact in information security in Luxembourg and Europe;
- Competitive working conditions and stimulating learning environment;
- Training and on-the-job-learning opportunities in autonomous work for customers under the supervision of experts of itrust consulting.

**To apply, please send (in PDF format) your most recently obtained diploma and ratings for the last two academic years, an updated CV and a letter of motivation to Marianne Guérin, [info@itrust.lu](mailto:info@itrust.lu).**