# AI Expert

Location: Meyreuil – France or remote

SEALSQ is a leading cybersecurity company with a special focus on securing semiconductors and the rapidly evolving Internet of Things (IoT) ecosystem. We are currently seeking an AI Expert who will aid us in enhancing our security infrastructure. The successful candidate will be expected to leverage their proficiency in Generative Pre-trained Transformer (GPT) capabilities, such as ChatGPT, to develop solutions that bolster the security of our systems.

**Key Responsibilities:**
Design, develop, and implement AI algorithms for bolstering the security infrastructure surrounding semiconductors and IoT ecosystems.
Collaborate with the team to implement Post-Quantum Encryption (PQE) techniques in real-world applications of digital signatures and encryptions using PKI and digital certificates.
Work with WISeKey to develop a new range of Trust Services, taking advantage of the latest advancements in PQE.

Aid in the development of secure communication channels (TLS), enhanced Key Exchanges, and email security (S/MIME) using PQE.
Contribute to the improvement of our current standards to make them resilient to quantum attacks, while ensuring backwards compatibility with existing counterparts.

Assist in the implementation of PQE around the concept of "hybrid signatures" that combine a conventional signature with a PQE algorithm signature in a single X.509 certificate.

**Qualifications:**
A Master's degree or Ph.D. in Computer Science, Mathematics, AI, or related fields.
Extensive experience in AI and Machine Learning, specifically with GPT models such as ChatGPT.
Knowledge and experience with cybersecurity, IoT, and semiconductor technology.
Strong understanding of Post-Quantum Encryption (PQE) techniques.
Familiarity with secure communication channels (TLS), enhanced Key Exchanges, and email security (S/MIME).
Excellent problem-solving skills and the ability to work in a dynamic, fast-paced environment.
SEALSQ is an equal-opportunity employer. We celebrate diversity and are committed to creating an inclusive environment for all employees. Apply today and help us redefine the future of cybersecurity.

*To apply, please send your resume and motivation letter to ipecharroman@wisekey.com*
*Exclusively by email*