

Cooperation Profile

Contact Details

Organization Name	Inha University
Contact Person Name	Jongpil Ye (in collaboration with Prof. Serdar Onses at Erciyes University and Dr. Olivier Pierre-Louis at Université Lyon 1)
Department	Department of Materials Science and Engineering
Phone Number	82-32-860-7523
Email Address	jpye@inha.ac.kr

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Organization

Brief Description of Organization: A university that conducts research and education across diverse academic fields including engineering, natural sciences, social sciences, humanities, and medicine
Organization Type: <input checked="" type="checkbox"/> University or College <input type="checkbox"/> Research Institute <input type="checkbox"/> Industry (Large) <input type="checkbox"/> Industry (SME) <input type="checkbox"/> Public Body <input type="checkbox"/> Other
5 Keywords (Sector/Specialization): Materials Science, Engineering, Natural Sciences, Information Technologies, Medicine

Project Idea

Call/Topic Reference HORIZON-CL3-2025-02-CS-ECCC-05
5 Keywords (Project Idea) Physical Unclonable Function, Thin-film Processing, Kinetic Monte Carlo Simulation, Post Quantum Cryptography, Electronic Device

Expertise & Role

Related Digital Field:

☐ AI ☒ AI Semiconductor ☐ Quantum ☐ Digital Contents ☐ Communication ☐ Cyber Security

Offered Expertise:

Thin-film and e-jet printing processes for fabricating electronic devices, Process optimization based on Kinetic Monte Carlo simulation

Preferred Role:

☐ Coordinator ☒ WP Leader ☐ Partner

Looking for

Expertise Needed

Post-Quantum Cryptography (e.g., lattice-based algorithms, NIST PQC standards), chip-level device integration (e.g., FPGA/ASIC design, PQC hardware accelerators)

Expected Contribution

Design and optimization of Post-Quantum Cryptography algorithms, Hardware implementation (e.g., FPGA/ASIC design, hardware accelerators) to integrate with PUF-based security solutions