

Full Name Sangwook Langenstück-Lee

Position Senior Researcher

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Your Target Call

HORIZON-CL4-2027-04-DIGITAL-EMERGING-05 Apply AI: AI-Driven Robotics for Industry: Enabling System Integration and Adoption

Your Expected Contribution to the Project / Consortium

- Expertise in advanced manufacturing and production engineering
- Process simulation, optimization, and experimental validation
- Hydrogen and fuel-cell manufacturing, especially metallic bipolar plates
- AI/data-driven manufacturing and digital production methods
- Support for Korea–Europe R&D collaboration and technology transfer

Biography

- Senior Researcher at Fraunhofer IPT in Aachen, Germany
- Research focuses on advanced manufacturing, hydrogen and fuel-cell production, numerical simulation, and process optimization
- Metallic bipolar-plate manufacturing, forming technologies, tool-wear prediction, rapid prototyping, and AI-supported production methods
- Actively involved in international R&D cooperation, particularly between Germany and South Korea, connecting research institutions, universities, and industry partners

Research Areas / Expertise

- Advanced Manufacturing & Production Engineering
- Forming Technologies & Tool Design
- Numerical Simulation / FEM
- AI / Machine Learning for Manufacturing
- Digital Production Systems

Motivation, Expectation and Plan

- Contribute manufacturing and simulation expertise to joint R&D activities
- Exchange knowledge with international research and industry partners
- Explore follow-up opportunities such as joint projects and proposals