CORNET Call for Proposals: International Collective Research --- Organisation profile ---	
Organisation:	**Fraunhofer IOSB**
Website address:	https://www.iosb.fraunhofer.de/en.html
Organisation typology:	□ SME Association □ University x Research Centre □ Other (please specify)
Sector:	x Materials x Process Engineering, Energy Technology and Environment □ Business Management and Organisation x Construction and Production x Chemistry, Textile, Food, Health and Medical x Measurement and Information
Field of specialisation:	**Automated Visual Inspection / Quality Control, Computational Imaging**
Expertise offered:	• Design of optical systems • Simulation of optical systems and visual inspection setups • Generation of synthetic training data • Computational imaging systems (lensless, light field, etc.) • Algorithms for solving inverse optical problems (deconvolution, super resolution, etc.)
Contact person:	Name: Dr.-Ing. Johannes Meyer Organisation: Fraunhofer IOSB E-mail: johannes.meyer@iosb.fraunhofer.de Tel: 00 49 721 6091 406

Inspection and Optronic Systems

Assuring quality and increasing productivity by means of machine vision

The Inspection and Optronic Systems business unit is home to all the Fraunhofer IOSB activities in sensor technology, signal processing and image processing that are used for quality assurance and enhancing productivity.

Our solutions comprise, on the one hand, optical sensor systems covering the entire reflection spectrum from ultraviolet to infrared; and, on the other, IT systems for processing and analyzing these signals in real time and, on this basis, providing specific information for people in the workplace or for decision-making in automated environments such as sorting systems.

These solutions are complemented by a wide portfolio of services, ranging from feasibility studies and process development to practical validation and the building of demonstrators and commercial end systems.

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Departments involved

- OPT
- SIG
- SPR
- SZA