

## SUSS MicroOptics SA

### Short description:

SUSS MicroOptics is a leading company for high-quality micro-optics. It comprises profound experience in optical design, micro-fabrication and metrology. The produced micro-optical components meet highest demands as required for applications in photolithography, optical networking and metrology. SUSS MicroOptics is offering high-quality microlens arrays in 200 mm wafer technology (Fused Silica and Silicon). The portfolio of products includes refractive microlens arrays (for applications where miniaturization and reduction of alignment and packaging costs are necessary, e.g. laser beam homogenization and condensing optics), diffractive optics (for desired angular light distribution). Company has also developed proprietary solution for Source-Mask Optimization of a SUSS Mask Aligner for improving yield of lithography processes. SUSS MicroOptics was founded in 1999 and is part of the SUSS MicroTec Group ([www.SUSS.com](http://www.SUSS.com)), a major supplier of Manufacturing and Testing Equipment for Semiconductor Industry. The company disposes with established distribution network in Europe, US and Asia.

### Partnership / cooperation possibilities:

The company is primarily looking for new designs of micro-optical elements (e.g. hybrid), specific to new applications (e.g. communication, laser processing, medical devices and health diagnostics, wearables, environmental monitoring). This includes integration of smart optical elements and miniaturization of existing devices and systems. Cooperation could also include fabrication of micro-optics from novel materials or by significantly improved manufacturing and adaptable approaches, incl. quality control. Foreseen partnership could include device manufacturers, designers of optical devices and experts on optical material and production processes.

### Possible H2020 calls (2016-2017):

NMBP 17-2016:	Advanced materials solutions and architectures for high efficiency solar energy harvesting
ICT2 – 2016:	Thin, Organic and Large Area Electronics (TOLAE)
ICT3 – 2016:	SSI – Smart System Integration
ICT29 – 2016:	Photonics KET 2016
PILOTS-03-2017:	Pilot Lines for Manufacturing of Nanotextured surfaces with enhanced mechanical properties
FOF 06-2017:	New product functionalities through advanced surface manufacturing processes for mass production
FOF 07-2017:	Integration of unconventional technologies for multi-material processing into manufacturing systems
FOF 08-2017:	In-line measurement and control for micro-/nano-enabled high-volume manufacturing for enhanced reliability
FOF-13-2017:	Photonics Laser-based production
ICT30 – 2017:	Photonics KET 2017
ICT31 – 2017:	Micro- and nanoelectronics technologies

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