



# Supurior

Individual polymers for semiconductor fabrication

## The Project

Photoresists are used by chip manufacturers to create a structure in semiconductors, which determines the performance of the final integrated circuit (IC, chip). An essential ingredient of a photoresist is a polymer, which is responsible for the resolution of the structure and therefore for the efficiency of the chip. Today, photoresist producers are forced to rely on standardized polymers available on the market but could profit from tailor-made products for specific issues. Fraunhofer LBF has developed a polymerization technique that allows the manufacturing of a broad variety of polymers fulfilling the specific requirements of the semiconductor industry. Based on LBF's IP, Supurior is going to offer a technology platform that allows the production of individual polymers, which will lower the cost and increase the performance of ICs.

## The Team

**Location:** Fraunhofer LBF, Darmstadt

**Members:** Heiner Schulte (founder), Roland Klein (LBF), Kabelan Thavayogarahah (LBF)

**AHEAD Infos** Batch: 1/2022 Phase: 2 Track: Spinn-off

## The Business Model

**Unique Selling Proposition:** Providing individual polymers fulfilling customer requirements  
Support during the entire process chain from R&D to production

**Unfair Advantage:** Proprietary polymerization process for tailor-made products with a broad variety of compositions

**Revenue Model:** Development and production by contract manufacturer

### Venture Readiness Level



### Technology Readiness Level



## The Side Facts

**Customer Focus:** B2B

**Searching For:** Customers, Investors, CFO

**Industry Tags:** Chemicals, semiconductors & semiconductor equipment,

**Technology Tags:** Customization, nano engineering, new materials