



GOLEM **Bio-inspired Assembly Process** **for Mesoscale Products and** **Systems**

Project objective

Imitate nature, to self-assemble micro-scale parts (<100 microns) using bio-inspired attachment process.

Specific Challenge

- Understand bio-inspired bonding mechanism
- Develop tools to control and quantify the bio-inspired assembly process

Expected impact

The project may lead to a cost-effective and flexible assembly process, with numerous applications, in particular for organic electronics.



NANOTECHNOLOGIES AND NANO-SCIENCES, KNOWLEDGE-BASED MULTIFUNCTIONAL MATERIALS AND NEW PRODUCTION PROCESSES AND DEVICES



STREP

Partners

- Technische Universiteit Eindhoven, The Netherlands
- Octax Microscience GmbH, Germany
- Delong Instruments a.s., Czech Republic
- Quintenz Hybridtechnik, Germany
- Ecole Polytechnique Fédérale de Lausanne, Switzerland
- Laboratoire d'Intégration des Systèmes et des Technologies, CEA, France
- Universität Stuttgart, Germany
- České vysoké učení technické v Praze, Czech Republic
- Laboratoire de Robotique de Paris, Université Pierre et Marie Curie, France
- National Physical Laboratory, UK
- University of Edinburgh, UK

Coordinator

Dr Yves Bellouard, Eindhoven
University of Technology,
The Netherlands

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Project's website:
www.golem-project.eu

