

PRINLAB

STATE-OF-THE-ART FACILITIES FOR PRINTED ELECTRONICS

PROTOTYPE PRINTING | FEASIBILITY STUDY | SCREEN PRINTING COURSES | BIOPROTOTYPE | BIOFEASIBILITY STUDIES

PrinLab – the world’s northernmost small-scale printed electronics manufacturing laboratory offers RDI services from testing to prototyping. Located in Finland at Oulu University of Applied Sciences (Oamk), PrinLab provides a low-threshold access to SMEs, researchers and product developers to participate in the development and testing of printed electronics applications while enabling co-operation between universities and research facilities.

PrinLab offers experts and cutting-edge equipment for printing and testing prototypes for electronic components, feasibility studies and training. Our services are ideal for companies, product developers, researchers, innovators and research and development projects. PrinLab is part of the PrintoCent Pilot Factory concept.

PROTOTYPE PRINTING FOR ELECTRONIC COMPONENTS

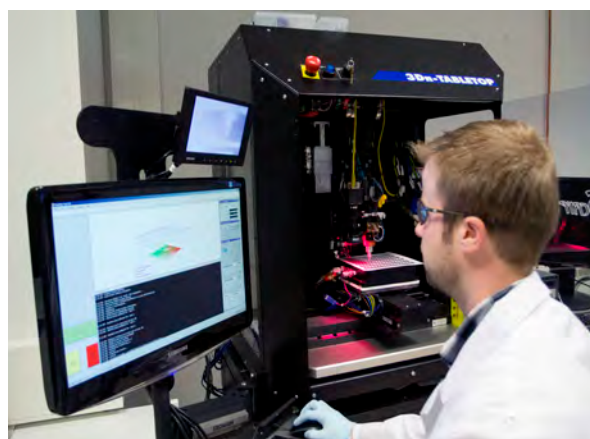
Prototype printing for electronic components can be, for example, RFID tags, temperature sensors or biosensors. Suitable manufacturing methods and printing materials are selected based on the customers’ production-ready CAD files. See the available printing equipment at oamk.fi/prinlab. Our customers receive information on the manufacturability and functionality of their prototypes for the chosen component.

Contents of the service

We will use printing method to manufacture a prototype component with 1–4 layers from a production-ready CAD file.

The customer receives the component prototype and a summary of the parameters used during the printing process. Additional services (testing and CAD design) available on demand.

Contact us to find out more about our printing services and pricing.



FEASIBILITY STUDY FOR ELECTRONIC COMPONENTS

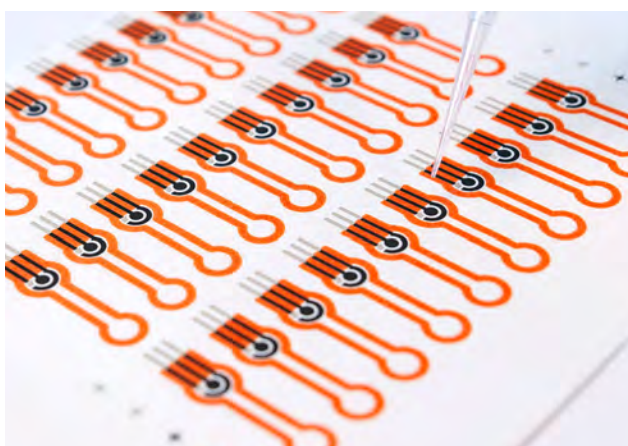
A feasibility study is based on the customer's problem. We recommend doing the study before prototype printing.

Contents of the service

The service includes the suitable manufacturing and printing methods based on the customer's problem. The customer will receive recommendations and a written report.

Manufacturing the electronic component based on the feasibility study is available as an additional service.

[Contact us for more information on feasibility studies.](#)



SCREENPRINTING INTENSIVE COURSE (2 DAYS)

In this intensive course you learn the basics of printing electronics components with the screen printing method.

Participants will learn hands-on screen printing at our lab. The exercises will be based on a previously learned theory. The training sessions are tailored according to the needs of our customers for 3–10 people.

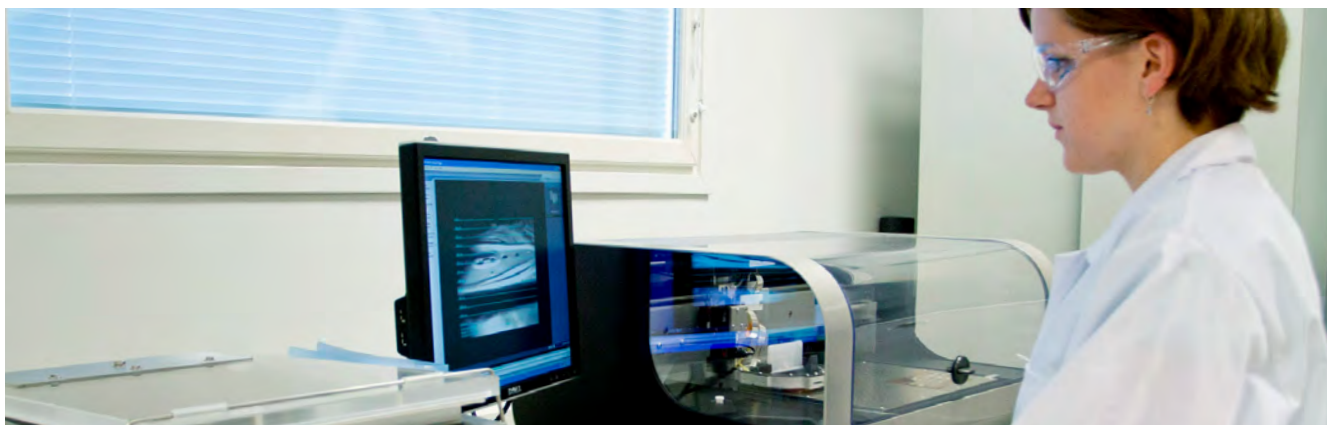
Contents of the course

- » Theory and methods for screen printing in printed electronics. Preparations for the printing process, laboratory safety. (1 day)
- » Hands-on screen printing exercises at the lab (printing, post-printing work and quality measurements). (1 day)

Ask also for additional services

- » Advanced training classes
- » Training at the customer's premises and with the customer's equipment

[Contact us and tell about your needs for learning printed electronics!](#)



BIOPROTOTYPE (TEST BATCH)

At Prinlab, we can manufacture and test a test batch of electrochemical biosensors. Electrochemical biosensors are printed by using the screen printing device. Biomaterials and basic information for the prototype (including CAD design) are delivered by the customer.

Contents of the service

- » Manufacturing a test batch of electrochemical biosensors. A part of the sensors will be tested with samples.
- » The customer will receive test sensors and a report of the manufacturing parameters of the sensors as well as of the functionality and repeatability of the tested sensors.

Additional services for bioprototypes are always product-specific development.

[Contact us to learn more about our bioprototype services.](#)

BIOFEASIBILITY STUDIES

A biofeasibility study is based on the customer's application idea.

Contents of the service

The study can, for example, evaluate if the chosen printing method is suitable for the product idea and what kind of biomaterials can be used. The study includes also a short peak into bioanalysis.

The customer will receive recommendations and a written report.

Additional services: Manufacturing a batch of bioprototypes

[Contact us to learn more about the benefits of biofeasibility studies.](#)

CONTACTS

Prototype printing, feasibility studies and training services

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Bioprototypes and biofeasibility studies

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Go to oamk.fi/prinlab to find our more about us and our services.