Printed and Organic Electronics Services at RISE Research Institutes of Sweden

taking greener electronics from researce to industry

The second second

KEY AREAS OF RESEARCH AND **EXPERTISE**

We are experts in printed, flexible, stretchable, bio- and organic electronics.

Focus on sustainable electronic solutions using sustainable electronic production methods based on sustainable advanced functional materials.



Greener electronics

Printing, curing and

drying processes

LCA



Functional materials Ink formulation



OECTs ECDs Sensors Devices



Energy storage and energy harvesting



Electronic design Rapid prototyping Hybrid integration



Printed ElectronicsAr ena

from molecules > inks > printing > hybrid printed electronics prototyping

Distribution of customer needs



Located in

Norrköping

• Find out more at:

www.printedelectronicsarena.com

Approx.

researchers



KEY LAB SERVICES







A case story

Ynvisible

Display Technology

- Commercialisation of ECD technology
- DeepTech fundamental to applied research
- Overprintable materials and stack inventions
 - Licensed by Ynvisible
- Technology transfer
- Scale-up project
- Full production started in July 2023 first customers
- Find out more at: www.ynvisible.com





Revolutionizing electronic circuitry manufacturing





Printed Sensor development kit

- Including printed sensors for sensing: touch, force, vibration, strain, pressure, temperature and humidity/wet.
- Available on different materials, such as PET, TPU and paper.
- On board energy harvesting for zero-energy.
- A full stack generic IoT system, adaptable for a great variant of applications.



Web application

Stack-on co-existence RF PCB, connected to cell phone, compatible with high-data streaming of Sensor Nodes

Also compatible to operate as

standalone nodes with e.g. BLE







Connect to device(s)

R

CONNECTION

Digital Cellulose Center

Greentech power paper shows promise of storing solar energy

Jun 21, 2021 | Blog





A case story

• Find out more at: <u>www.digitalcellulosecenter.se</u>

NyTeknik

Premium / Automation / Digitalisering / Energi / Fordon / Startup / Ingenjörskarriår / Ledigajot

PREMIUM

Deras elektroniska papper kan lagra framtidens förnybara energi

2021-06-21 06:00 Av: Ania Obminska

4 kommentarer



.00000

Aktivera Talande Webb

Det elektroniska biobaserade pappret ska kunna tillverkas i en vanlig pappersmaskin och lagra energi från både sol- och vindkraft. I de senaste försöken producerar forskarna cirka 10 meter långa rullar.

World class research infrastructure at your doorstep- for FREE

Connecting Science...

MERGE

UNINOVA

EXCELENCIA SEVERO

Research Infrastructure Platform Worldwide

Information

Technologies

TECHNISCHE UNIVERSITÄT

Institute

HIERN

CEZAMA

de Nanociència Nanotecnologi

Initiate and Foster international scientific collaborations

- **Pre-funded** International state of the art research infrastructure available for FREE
- Travel, Accommodation, Equipment, Services and Materials^{*} all sponsored
 - Call opens every 3 months for projects upto 2 weeks activities

Emerging Printed Electronics Research Infrastructure

EMERGE: Transnational Access Activities (TA)

Users can apply to projects in any (or multiple) of the 4 TA:



www.emerge-infrastructure.eu

info@emerge-infrastructure.eu



RISE contacts: yusuf.mulla@ri.se duncan.platt@ri.se



The EMERGE project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement Nº 101008701





ab

G

3

ONE STOP SHOP FOR SUSTAINABLE PRINTED ELECTRONICS

Sign up and a project manager will be in contact with you within five working days. You will then be guided throug our service and pilot line facitilite options, in order to find the right match for you needs.

TELL US ABOUT YOU IDEA

JOIN THE COMMUNITY

Duncan Platt

duncan.platt@ri.se

David Nilsson

david.nilsson@ri.se



RISE-Research Institutes of Sweden AB · info@ri.se · ri.se