

# Printable Electronics Grand Award

## Yamagata University ROEL Printed Device Technology Research Division

Featuring wearable bio-sensors, sensor-integrated RFID, and bio-fuel battery driven oscillation circuits, Yamagata University ROEL exhibited a rich variety of printable electronics devices. Yamagata University ROEL received positive marks for their practical deployment focused exhibit and its rich offering of useful hints for companies in a wide range of fields.



Printable Electronics 2018  
Originality Award

### Originality Award

National Institute of Advanced Industrial Science and Technology  
Flexible Electronics Research Center

Printable Electronics 2018  
Application Award

### Application Award

YAMAGATA RESEARCH INSTITUTE OF TECHNOLOGY

Printable Electronics 2018  
Business Model Award

### Business Model Award

Toray Engineering, ELECTRONICS DIV.

Printable Electronics 2018  
Special Award

### Special Award

YUASA SYSTEM

## Printable Electronics Grand Award



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### National Institute of Advanced Industrial Science and Technology Flexible Electronics Research Center

AIST exhibited stretchable hybrid electronics that utilize the high design freedom of printable electronics. AIST received high marks for its development of previously unseen devices, including electrocardiogram monitoring clothing and a baseball cap integrated with a radio.



### YAMAGATA RESEARCH INSTITUTE OF TECHNOLOGY

The Yamagata Research Institute of Technology exhibited a printable humidity sensor developed from cellulose nanofiber. The sensor undergoes a change in resistivity equivalent to approximately 1,000 times the change in humidity, bringing them recognition for opening a way to humidity sensor mass-production.



### Toray Engineering, ELECTRONICS DIV.

Toray Engineering exhibited its roll-to-roll maskless UV exposure and inkjet patterning system. This system was recognized for its extremely high marketability and applicability, offering the potential to significantly drive the commercialization of large-area, highly reliable printed electronics devices.



### YUASA SYSTEM

Yuasa System exhibited its Tension Free U-shaped Folding Test system for testing the bending durability of flexible displays. Based on their highly creative, unique technologies, the device was recognized for its innovativeness and its ability to greatly contribute to the improved reliability of printable electronics.