

## **Shared Clean Room**

## Facilities and Equipment for Experiments and Practical Training

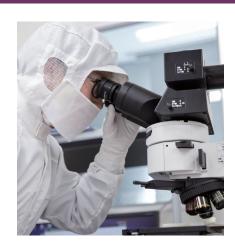
A wide range of applications, from hands-on training to joint industry-academia-government research

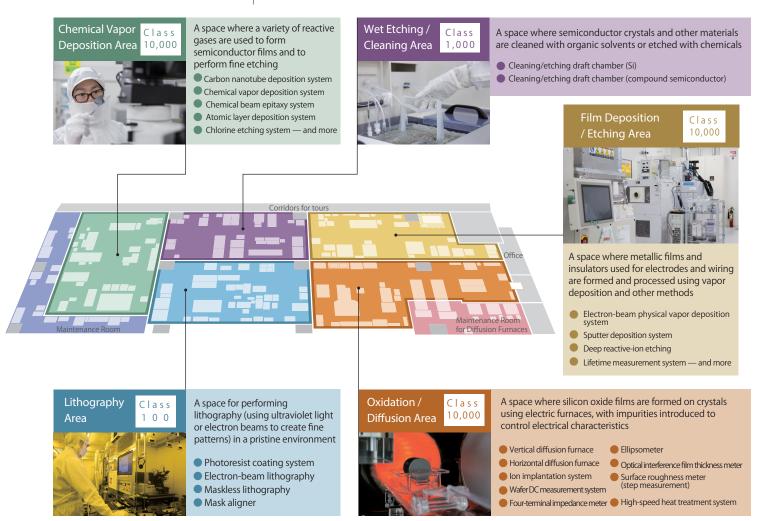
A complet facility for semiconductor microfabrication

A "clean room" is a laboratory with filters that remove and reduce the quantity of dust particles 0.5 microns and larger in the air. The clean room at TTI is about 450 m² in area and is capable of complete processing of semiconductor materials and devices. While the clean room is used to provide practical training from the first year of undergraduate studies, it is also used to conduct research on cutting-edge

devices and materials, including solar cells, graphene, micromachines, magnetic devices, and gallium nitride power transistors. Additionally, the clean room is actively used for joint industry-academia research, including the Nanotechnology Platform project sponsored by the Ministry of Education, Culture, Sports, Science and Technology.

Note on clean room classes: A class 100 clean room has 100 or fewer particles of size 0.5 microns or larger per cubic foot. (This is equivalent to class 5 in the ISO standard.)





Workshops are also held for participants from industry and academia.

Semiconductor process training and workshop (fee-based)

A workshop is held every fall to help participants acquire general knowledge about semiconductor technology through lectures about semiconductors and hands-on process training.

- Eligible participants: Company workers, academic staff and students with an interest in semiconductors
- The schedule and other details are available on TTI website.