

National Facilities



ISO Certified | Home to
India's Largest Academic Fab |
24x7 operating national Facilities



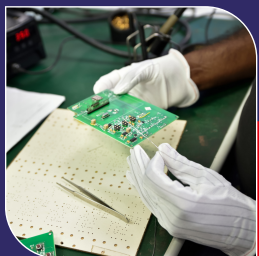
National Nano Fabrication Centre

Lithography | Etching | Thin Films & CVD



Micro and Nano Characterization Facility

Material | Mechanical | Optical | Electrical



Packaging and Systems Facility

Dicing | Wire Bonding | Flip Chip Bonder

Services



Training

Introductory courses | Hands-on fab
and tool trainings | Custom trainings



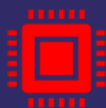
Project Execution

Standard & custom patterning | Micro
Heaters and IDEs | On-chip gas sensors
| AFM tips | microfluidic Channels



Product Development

Gas & Pressure Sensors | CVD Reactor |
kW Lasers | IR Sensors



Wafer Processes

Films | Lithography | Annealing | Doping
& Diffusion | Wafer Bonding | Dicing



Consultancy

Fabrication and Characterization

Contact Us



+91-80-2293 3276



projects.cense@iisc.ac.in



www.cense.iisc.ac.in



IISc, Bengaluru - 560012

LinkedIn



Centre for Nano Science and Engineering

Indian Institute of Science

Capabilities



Technology Pipeline

- MicroRheometer
- Flexible Solar PV
- Gallium oxide kV class devices
- Piezoelectric Pressure sensors
- In situ TEM holders and platforms
- Torque Sensor
- Drop Impact Printing
- LMOI based micro-reactors
- Antimicrobial surfaces
- Integrated photonic Gas sensor
- RF-over-fiber
- Large-area perovskite solar cells minimodule
- Diffusion barrier layers on steel for thin-film solar cells
- Non-contact temperature measurement of Si wafers using IR lasers
- Raman Lasers at Eye-safe Wavelengths
- Octave Spanning Supercontinuum Sources
- Optical Frequency Combs for Telecommunications
- Nano swimmers

- PMUT and CMUT
- Pyroelectric heat sensor
- RF Photonic Broadband Microwave Receivers
- High Coherence kW Laser for defense

- GaN HEMT
- GaN passives
- GaN power devices
- GaN RF/microwave devices
- GaN Materials
- kW class lasers

- ICU Ventilator
- Microfluidic cytometer

- Pressure Sensor
- IoT sensor for agriculture
- Electrochemical sensors
- Multianalyte PoC device
- CVD Reactor
- Gas Sensors
- MEMS Gyro

Contact Us

For further details on these projects and also for the list of TRL 4 (Research and Technology validated in lab)

Technologies Developed

