

The Tyndall National Institute brings together over 300 research scientists, engineers and students to create the largest ICT (Information and Communications Technology) research centre in Ireland for the benefit of Irish industry and academia. Major **research activities** are focussed on electronics, photonics and ICT for life science as well as associated materials and theory with applications in communications, power electronics, life sciences and other industries. The **vision** for Tyndall is to focus on getting value from research that will impact Ireland's future economy and society. Extensive research facilities include silicon and III-V fabrication, characterisation and test for materials, devices and circuits and integration and packaging.

Key Research Fields & Competence Areas:

- Ø Silicon Fabrication, Technology, Devices, Circuits
- Ø Miniaturisation and Functional Integration
- Ø Energy Processing for Information & Communication Technologies / Biomedical Applications
 - Energy Harvesting / Energy Storage
 - Power Conversion – Power Supply on Chip
 - Embedded Magnetics in PCB, Silicon
 - High Density Packaging / 3D Integration
 - Thermal Management
- Ø Microsystems for Wireless Sensor Networks

Institute Highlights:

- Ø 300 Research Staff and Students
- Ø €120 Million Research Infrastructure
- Ø Research Funding of over €70 Million
- Ø Annual Turnover €16 Million
- Ø Collaborating in over 60 EU Projects
- Ø 4 Spin Off Companies since 2000

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