



Quantum Design

LATIN AMERICA

Raising The Science

Materials Science

Spectroscopy

Cryogenics

Optics

Nanoscience

Sample Synthesis

Biotechnology & Chemistry

Industries

Microscopy

Quantum Technology

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Scienta Omicron is a leading innovator in surface science and nanotechnology. At their technology centers in Uppsala, Sweden and Taunusstein, Germany develop and produce high-tech instruments sold and serviced from the four regional hubs in USA, China, Japan and Germany to support top researchers globally.

Provides top capabilities in electron spectroscopy, scanning probe microscopy and thin film deposition, all in ultra-high vacuum (UHV).

Focusing on the race for new unique materials and solutions, in areas like – smarter batteries, next generation electronics, quantum technologies, solar energy, intelligent sensors and advanced materials. Scienta Omicron drive the surface science towards the future and offers a wide range of standard modular solutions and continuous access to new technologies through significant investments in R&D.

The technology can be acquired as a single component all the way to large configurable clusters of systems – solutions called 'Materials Innovation Platforms (MIP)'".



Core technologies:

Spectroscopy:

PES – Photoelectron Spectroscopy, tool for measuring the chemical and electronic states in different materials.

The technology has been developed in several directions, e.g. ARPES for electronic structure, HAXPES for analysis of chemical states in the bulk of materials and APPES for analysis of gas-solid and liquid-solid interfaces.

Microscopy:

SPM - Scanning Probe Microscopy, measures the physical structure of a surface.

Thin film deposition:

MBE - Molecular Beam Epitaxy, technology for building materials as samples for advanced research.

BIG AREAS

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