

Advancing Materials Characterization



Lake Shore offers ▶
precision platforms
for materials research



THz Material Characterization System

A non-contact measurement system that uses THz-frequency energy to measure across a wide range of frequencies, temperatures, and field strengths

Ideal for: semiconductor materials • complex oxide systems • thin films • superconducting metamaterials • 2D materials



Hall Effect Measurement Systems

Robust hardware/software systems for performing DC field Hall measurements with options for AC field Hall, high or low resistances, and variable temperature

Ideal for: ZnO & other transparent conducting oxides • metal oxides • III-V, II-VI, & elemental semiconductors • complex oxide systems



VSMs/AGMs

High-sensitivity electromagnet-based systems for accurately characterizing magnetic materials over a wide range of temperatures and fields to >3 T

Ideal for: magnetic thin films & multi-layers • magnetic nanomaterials • permanent magnets, including rare earth materials • MCE materials



Cryogenic Probe Stations

Micro-manipulated stations for non-destructive on-wafer probing and measurement of materials in a tightly controlled environment

Ideal for: transition metal dichalcogenide & 2D material transistors • CNT & nanowire devices • GaN & other wide-bandgap devices • MEMS

