NANOTECHNOLOGY

The McCrone Group offers you an unlimited scope in the analysis of nanomaterials and nanocomposites. Our team of scientists at McCrone Associates has unmatched experience in solving a wide range of nanomaterials characterization problems. The diverse faculty of experts at the College of Microscopy can teach you a variety of cutting-edge techniques, and our knowledgeable sales team will help you configure the instruments to meet the analytical needs in your laboratory. From analysis to education to instruments, The McCrone Group is your premier microscopy resource for characterization of nanomaterials and nanocomposites.

McCrone Associates is focused on solving particle identification and materials problems. Our staff scientists use state-of-the-art instruments and techniques to provide you with reliable, confidential analysis of your nanomaterials. All services begin with an evaluation of your problem and continue with sample analysis. Coordination of additional services is available upon request.

Analytical Services:
- High-resolution transmission and scanning electron microscopies
- High-resolution imaging for particle size, morphology, homogeneity and dispersion
- High-spatial-resolution elemental and electronic state analysis
- Crystalline phase identification by electron and X-ray diffraction
- Phase distribution/segregation
- Raman spectroscopic analysis of carbon nanotubes
- Contaminant identification
- Product comparisons
- New product development

Common Samples:
- Carbon nanotubes
- Colloidal suspensions for chemical mechanical polishing (CMP)
- Nanoparticles for drug delivery and personal care products
- Polymer nanocomposites containing dispersions of clay, carbon black, or carbon nanotubes
- Quantum dots
- Environmental and workplace hygiene monitoring samples

Transmission electron micrograph of carbon nanotubes and metal catalyst particles.

Unlimited Scope • www.mccrone.com • analysis@mccrone.com
Hooke College of Applied Sciences offers a wide range of courses relating to the analysis of nanomaterials. Our hands-on courses, taught by experts in the field, explore a variety of techniques and instruments and are IACET (International Association of Continuing Education and Training) approved.

**Our courses related to nanomaterials analysis include:**
- INS500: Modern Polarized Light Microscopy
- INS510: Scanning Electron Microscopy
- INS520: Transmission Electron Microscopy
- INS530: Raman Microspectroscopy

Each Hooke College of Applied Sciences course is taught by recognized experts in their fields with decades of real-world experience.

McCrone Microscopes & Accessories offers you proven microscopy equipment and accessories for a variety of nanotechnology applications. Our technical sales team has helped create custom instrument packages to fulfill the needs and specifications of laboratories around the country. We can help outfit your entire lab and provide ongoing product training and support.

**Our products include:**
- Olympus SZX Series Zoom Stereo Microscopes
- Olympus BX Series Polarized Light Microscopes
- Linkam Thermal Stages
- NeoScope Benchtop SEM
- Digital Cameras
- Slide Reference Sets
- Reference Books
- Lab Supplies
- Product Training and Support at Your Site

Inspect samples even closer with the compact NeoScope benchtop SEM.