



Nanotechnology

Nano Companies in Colorado

ALD Nano Solutions
ALIO Industries
Advance Research Instruments
Allos Therapeutics, Inc.
Applied Research Associates
Ball Aerospace & Technologies
CaP Biotechnology, Inc.
Cenymex Corporation
CoorsTek
Design Net Engineering
Infinitem Power Solutions
IonTech, Inc.
Isonics
ITN Energy Systems
Lockheed Martin
Matrix 5 Technologies, Inc.
MERCO, Inc.
Metafluidics
Myogen, Inc.
Nanomaterials Research, LLC
NanoPierce Connection Systems, Inc.
NanoProducts Corp.
Pentax Technologies
Pioneer Astronautics
RMH Group
Rocky Mountain Labs
TDA Research, Inc.
ZettaCore

Profile and Trends in Colorado

Nanotechnology is an enabling technology with applications across many industry sectors important to Colorado, including telecommunications, optics, biotechnology, pharmaceuticals, data storage, aerospace, defense, energy, and environmental technologies.

A recent study from the Lux Research ranks Colorado 3rd among the states in its ability to benefit economically from a vibrant local nanotechnology industry. Colorado has several competitive advantages, including leading research at universities and federal laboratories, a nascent industry group of companies founded on nanotechnology, a well-educated workforce, high-technology industries that will be users of nanoscience. One little known advantage for Colorado is the state's dry climate. Nanomaterials have high surface areas and will absorb water from the air, making a dry climate a huge advantage to nanofabrication.

Colorado Nanotechnology Companies

Colorado already has a small number of companies with established nanotechnology research competencies and products in this new field. Colorado nanotech companies tend to be small and located up and down the Front Range. Some larger companies, such as IBM, Kodak, Lockheed Martin, and Hewlett-Packard have a presence in Colorado and are making corporate commitments to nanotechnology research.

Supporting Colorado's industry is the Colorado Nanotech Initiative, a non-profit organization that catalyzes opportunities, stimulates education, promotes public awareness, and serves as a general clearinghouse for nanotechnology resources statewide and around the region.

Research

Research capabilities are one of the major requirements for economic growth based in nanotechnology. A major research asset for Colorado is the National Renewable Energy Laboratory. Nanotechnology research areas at NREL have energy, medical, and electronic applications. Another research asset is the National Institute of Standards and Technology, Boulder and scientists at JILA, an institute for interdisciplinary research and graduate education in Boulder. The Quantum Physics Division at NIST and the new W.M. Keck Optical Measurement Laboratory at JILA provide unique laboratory resources for nanotechnology research. CU researchers also work in a variety of areas including microfluidics, MEMS (micro-electromechanical systems) and bio-MEMS (diagnostics on a chip).