

**ACC MEMBER:**

Colorado Nanotech

**ORGANIZATION TYPE:**

Non-profit Advocacy  
and Member  
Organization

**WHAT IT DOES:**

Provides a single  
voice for nanotech in  
Colorado; grows the  
state's nanotech  
industry through  
technology transfer,  
federal grants and  
policy initiatives.

**WEBSITE:**

[www.coloradonano.org](http://www.coloradonano.org)

**What is Nanotechnology?**

- Nanotechnology is the manipulation, control and integration of atoms and molecules at the nanometer level to form materials, structures and devices.
- A nanometer is one billionth of a meter, about 750,000 times smaller than the width of a human hair. At this scale, different laws of physics apply; material properties change and new material behaviors come into existence.
- Nanotech is enabling technology spanning many industrial sectors such as bioscience, renewable energy, photonics, aerospace and computer memory, to name just a few.

**How Does Nanotechnology Affect Colorado's Economy?**

- By 2014, nanotechnology will be incorporated into 15% of global manufacturing output totaling \$2.6 trillion.
- In 2005, Lux Research ranked Colorado 3<sup>rd</sup> in the nation for its potential to develop its economy through nanotechnology. Our dry climate is ideal because nano-materials have a high surface area and can be damaged through water absorption.

**Who Are Colorado's Nanotech Industry Leaders?**

- The Colorado-based National Renewable Energy Laboratory (NREL) and National Institutes of Standards and Technology (NIST) are government leaders in nanotechnology research.
- There are approximately 35 nanotech companies in Colorado and numerous others using nanotechnology to develop new products and services.
- The University of Colorado and ALD Nanosolutions, Inc., won the 2004 R&D 100 Award for their Particle-ALD™ product. The award, sometimes called the "Oscars of Invention," recognizes the 100 most technologically significant products introduced into the world marketplace in a given year.
- ZettaCore, Inc., located in Englewood,
  - was named a 2005 Technology Pioneer by the World Economic Forum.
  - has been recognized for three years by AlwaysOn magazine as one of the world's 100 most innovative private companies.
- In addition, ZettaCore's founder and director, Dr. Randolph Levine, was named a runner-up for the *Small Times Magazine's* "Best of Small Tech Award".
- The Colorado School of Mines, Colorado State University, the University of Denver, and the University of Colorado provide a wealth of research and education opportunities.