



# The Colorado Nanofabrication Laboratory

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## **Abstract:**

The Colorado Nanofabrication Laboratory (CNL) is a newly established facility at the University of Colorado at Boulder. It is a campus-wide facility that provides open access to a wide range of micro- and nanofabrication tools. This 5,500 sq ft facility has recently been remodeled while becoming a new member of the National Nanotechnology Infrastructure Network (NNIN). The facility builds on several research facilities previously established by faculty members in ECEE and has been augmented with equipment upgrades and equipment purchases.

The CNL lab consists of numerous micro- and nanofabrication tools enabling different types of lithography, thin film deposition, etching and thermal processing. Other tools include electrical and optical characterization, a variety of microscopes (optical, SEM, AFM and STM) and packaging tools. A complete list can be found on the website at <http://cnl.colorado.edu>.

CNL joined the NNIN network on March 1<sup>st</sup>, 2009. The NNIN (<http://nnin.org>) is an NSF sponsored network of 14 nanofabrication sites located at Universities across the country, spearheaded by Cornell and Stanford University. The objective of the lab as a member of the NNIN is to “help our users perform their research in our facility.” In addition, we participate in a variety of network activities that include an REU program and several education and outreach events such as workshops and symposia.

This presentation marks the official opening of the laboratory and will cover specifics about its mode of operation, its capabilities and the broader NNIN network interactions and activities. After the presentation, attendees are invited to tour the facility located on the second floor of the EE wing in the Engineering Center.