

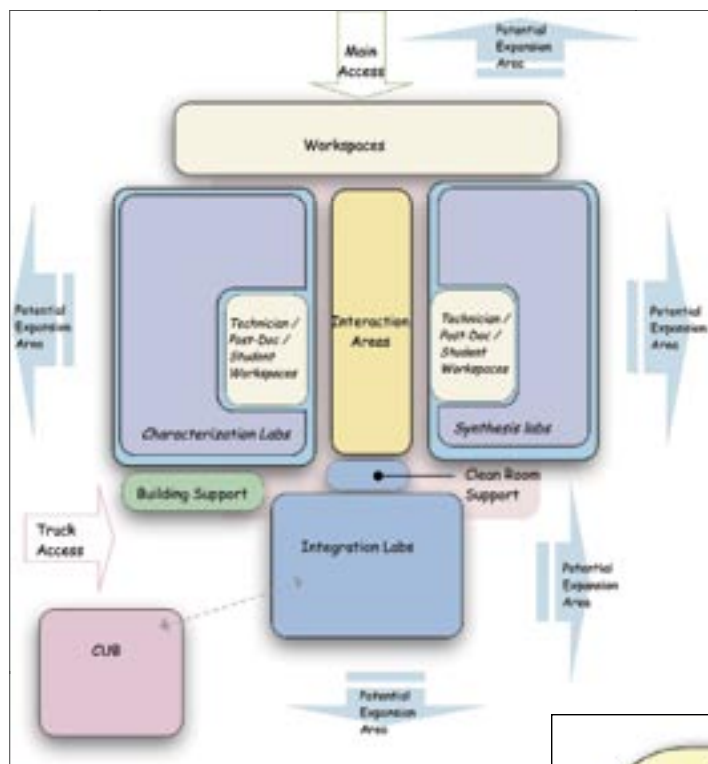
# Facility Program for the Core Facility for the Center for Integrated Nanotechnologies (CINT) Sandia National Laboratories, Albuquerque, New Mexico

ARC prepared a facility program (Functional and Operational Requirements) for CINT's Core Facility. The Center for Integrated Nanotechnologies (CINT) is one of the proposed BES/Office of Science Nanoscale Science Research Centers, which will be operated jointly by Sandia National Laboratories (Sandia, or SNL) and Los Alamos National Laboratory (LANL). CINT's primary objective is to develop the scientific principles that govern the performance and integration of nanoscale materials, thereby building the foundation for future nanotechnologies. The distinguishing characteristic of the Center is its focus on exploring the path from scientific discovery to the integration of nanostructures into the micro- and macroworlds. This path involves experimental and theoretical exploration of behavior, understanding new performance regimes and concepts, testing designs, and integrating nanoscale materials and structures.

CINT will consist of a core facility and two gateways that will provide a national nanoscience resource. The core facility will be located in Albuquerque, New Mexico. One gateway will be located at Sandia within the Integrated Materials Research Laboratory (IMRL, Building 897). The other gateway will be a new facility constructed at LANL. The CINT core facility has a target size of about 90,000 gross square feet. It will consist of state-of-the-art laboratories (synthesis, characterization and integration-cleanroom rooms), offices, support spaces and interaction areas.

**Project Schedule:** 5/2001 - 11/2002

**Client:** Sandia National Laboratories



*CINT's primary objective is to develop the scientific principles that govern the performance and integration of nanoscale materials.*

*Relationship diagram (above).*

*Example of laboratory service option (Right)*

