



2007 Award of Excellence  
**AIA Montana Design Awards Program**  
Honor Award



*Architect of Record:*

**Gordon Whirry Architecture**  
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### **Applied Technology Center, Montana State University - Northern**

**Program:** Provide a 21<sup>st</sup> century learning environment to better serve growing programs in the College of Technical Sciences and foster partnerships with business, industry, and the community. Showcase the university's capabilities while providing a symbolic and actual hub for related academic buildings in the vicinity. Design in a contemporary manner while blending with the existing campus buildings.

**Spaces:** 17,190 sq. ft. of lab and classroom spaces include a 110 seat tiered lecture hall, a high bay 4,800sf industrial lab, teaching, and testing labs, chassis and engine dynamometer test cells, oil testing lab, research and prototype spaces all linked with a data command center. Air handling units are located in a mezzanine space.

**Building Construction:** Masonry walls with steel joist roof framing and metal decks, slab on grade. All industrial spaces are multi-media capable with 'future-proofed' flexible data and communication linkages. Construction and systems are designed for industrial grade testing and machining equipment throughout. Acoustical decking or acoustical panels are used for all instructional space ceilings. Cost for the building was \$165/square foot.

**Sustainability Features:** These include daylighting, ground source cooling, radiant floor heating, heat recovery ventilation with economizer cycles, energy efficient envelope with low life cycle costs. The HVAC controls are entirely computer controlled and full commissioning was conducted. High efficiency lighting with multi-level switching is used throughout. All materials are durable and easily maintained. Most floors are diamond ground concrete.