

Big Sky Acoustics, LLC

PROJECT PROFILE: **MSU COLLEGE OF BUSINESS**



PROJECT: Jake Jobs College of Business and Entrepreneurship
Montana State University
Bozeman, MT

MSU received a \$25 million donation from alumnus Jake Jobs to transform the business school. The new state-of-the-art teaching facility opened in 2015. The building is organized around a central forum, was designed with a geothermal heating system and earned LEED Gold Certification. Big Sky Acoustics provided the Acoustical Design of the new academic building.

BSA's SERVICES AND SOLUTIONS:

- Specified Room Acoustics design options to control reverberation and echoes. Developed computer models to predict the reverberation times, analyze the acoustical characteristics, and determine the location, type and quantity of required acoustical treatments.
- Provided Sound Isolation design services to control the transmission of airborne sound between spaces.

- Recommended STC-rated wall constructions between noise-sensitive rooms, and determined the acoustical requirements for the operable partitions, doors and interior glazing assemblies.
- Predicted the noise levels inside the building due to the nearby Chemistry Building exhaust fans, and recommended exterior window configurations to limit intrusive noise.
- Calculated the noise levels of the mechanical equipment and systems serving the building, and developed noise control design options.
- Specified perforated internal facing and spring vibration isolators for the air handling units, and insulated flexible duct and polyester duct liner for the network of ducts, pipes and conduits. Seismic and vibration isolation concerns were also addressed. Numerous different manufacturer's products were provided for consideration.

Poor acoustics is a barrier to learning. BSA's acoustical design elements ensure clear communication and limited distractions in the new building.