

## PROJECT PROFILE: **MANUFACTURING PLANT**



**PROJECT:** PREMIER TECHNOLOGY  
Pocatello, Idaho

Premier Technology expanded and needed a new manufacturing facility for the fabrication of metal products. Big Sky Acoustics was hired to measure existing noise levels in the current facility, analyze the new plant design, evaluate engineering controls, and develop noise control measures to reduce worker noise exposure.

### **BSA's SERVICES AND SOLUTIONS:**



- Premier Technology uses a variety of metalworking tools, including grinders, welders, hammers and saws. An open prefabricated building was proposed for the new facility, with three large shop bays in order to manufacture large items.
- BSA measured overall noise levels in the existing shop, as well as the noise of the individual equipment.
- For the room acoustics analysis, BSA determined the type and quantity of sound-absorbing material required for the ceiling and walls of the facility. Provided two ceiling and three wall material options, and determined the effectiveness and cost of each option.
- For the sound isolation analysis, BSA evaluated various constructions between the new shop bays and adjacent spaces, including the training room and private offices. Provided wall construction, door assembly, and window configuration options to reduce the noise levels.
- Summarized the study in a written report, so that Premier Technology could choose the material options and determine building costs in the design phase of the project.

