



Chemical and Biological Engineering/Chemistry Building

- **Square Footage:** 49,250
- **Estimated Cost:** \$17,957,700 (\$10,000,000 of total from HEFF funds)
- **Why is this project important?** As a university with primarily engineering and science majors, all of SDSM&T's 2,070 students will take classes and labs in this building. It is important that the university provide a safe teaching and learning environment for faculty and students. Many laboratories were built during the country's first push to science and technology in the late 1950s and early 1960s. The ensuing years have left many of these science facilities in poor condition and beyond renovation or repair. To properly grow research in our state, improving the quality of science facilities and labs must be a priority.
- **What needs will this project fulfill?** The new building, when fully completed, will replace a fifty year old facility that has outlived its purpose for academic laboratory instruction. It incorporates state-of-the art graduate and undergraduate research space. The layout of the laboratories provides for innovative ways to conduct collaborative and multi-disciplinary research. This building will have modern laboratory space that will serve as the vehicle for conducting research for the enhancement of undergraduate and graduate education while affording the potential for economic development for the state of South Dakota. This new facility will facilitate the growth of rapidly-emerging technologies, such as ethanol, fuel production, food and agricultural processing, and environmentally-friendly plastics and coatings. Equally important is that the building be a campus showpiece that will aid in the recruitment and retention of students and faculty.
- **Why is this project unique?** Science and engineering buildings are different than other academic buildings in that they are planned from the inside out, at the kind of detail level where inches in the lab matter. For the millennial student, technology is expected, access to information immediate, and learning is "hands-on." There is the need to work in teams, meet as groups, and jointly work with faculty. These factors are each integrated into the program, and are carefully balanced with the budget and square footage considerations.

