



MS&T - SCHRENK HALL

The Clark Enersen Partners' work for MS&T began in 2004 with development of a Program Statement and Master Plan. The project awaited funding for many years until Bertelsmeyer Hall (Phase 1) became a project to house Chemical and Biological Engineering. Several years afterward, we re-programmed the renovation of Schrenk Hall (Phase 2) and a new Biological Sciences Building (Phase 3) due to significant growth in their laboratory space needs. The Schrenk Hall Phase 2 renovation of 40,000 square feet was completed in December 2017 and included the upper two floors of the building.

During Phase 2, we installed two new Air Handling Units (AHU) in the penthouse. One unit was 100% Outside Air (OA) serving the lab areas, and one was recirculating serving a small office wing. However, the most intense effort involved consolidating all of the fume exhaust from the building's 80 fume hoods into one large high-plume fan-set. We demolished 10 individual fan-sets and installed one new set with heat recovery in the center of the roof. We also extended new hydronic piping from the basement and created a new protected lab water system to serve lab plumbing fixtures. As a part of the Phase 2 renovation, a 500kW diesel driven generator system was added to provide backup of code required emergency and life safety loads, in addition to standby loads critical to laboratory functions. All main emergency/standby distribution equipment necessary to serve the entire building was installed as a part of Phase 2. By setting this infrastructure, we are able to easily accommodate future renovations while minimizing disruption to other areas of the building.

Additional Photography

LOCATION: Rolla, Missouri

PROJECT TYPE: Academic

SERVICES:

Architecture

Engineering

Interior Design

Construction Administration

Laboratory Planning + Design

