



## Pharmaceuticals & Biotechnology

### Client

Sigma-Aldrich

### Location

St. Louis, MO, USA

## Laclede Life Sciences and High Technology Center

### Project Description

To attract high-caliber research scientists to the firm, Sigma-Aldrich engaged CH2M HILL Lockwood Greene to design a Greenfield state-of-the-art R&D facility. The 137,000 sf project comprises approximately 120,000 sf of laboratory space, a complete full-service cafeteria, and a 250-seat training center on a 14-acre site. The four-level laboratory building houses organic labs, biochemical labs, analytical labs, micro-suite reactor/harvest labs, and a Biological Level 3 lab. CH2M HILL Lockwood Greene provided engineering design and construction support services. Features of the project included:

- Working as an integral part of the construction team reduced the schedule to 20 months from concept to occupancy—two months earlier than planned, without exceeding budget. Early occupancy permitted Sigma-Aldrich to realize tax savings.
- Building flexibility into the design made additional lab conversions easier, reducing future design costs.
- Coordinating the mechanical design maximized the openness of the labs, maintaining the workplace look and feel the scientists wanted to achieve.
- Laboratories include Class-100,000 clean labs and containment labs.
- Laboratory functions include cell and tissue culture, RNA and DNA research, cold lab experimentation, and bioreaction.
- Laboratory equipment design includes bioreactor hookup, a liquid nitrogen feed system for cryogenic freezers, a USP XXIV water treatment and distribution system, autoclaves, glass wash equipment, and lab gas services.