

Genzyme Corporation Manufacturing Plant Expansion

Allston, Massachusetts

Owner

Genzyme, A Sanofi Company

Architect

ARC/Architectural Resources
Cambridge

Contractor

Turner Construction Company

Lighting Design

LAM Partners

MEP Designer

CRB

Completion Date

2010

Construction Cost

\$150 million

Total Area

127,000 sf

LEED Certification Level

NC Gold

Services Provided

LEED Consulting



Genzyme Corporation wanted to boost the size of its current facility by expanding the facility by nearly two-thirds totaling 300,000 square feet. The new 127,000-square-foot expansion provides space for an additional 90 employees, offices and manufacturing support. The Allston facility produces several drugs to treat rare diseases and used to package two products; Aldurazyme and Thyrogen. Fore Solutions, acquired by Thornton Tomasetti in 2012, was the LEED consultant to ARC/Architectural Resources Cambridge.

An underground steam and electrical generation system in a central plant with a cogeneration unit creates power onsite. Waste heat, captured from natural gas turbines, is transferred and used to heat hot water and supplement the building's heating load. The glass expansion on the south side of the building maximizes the use of natural daylight using light shelves that reflect light deep into the space while providing shading in the summer months. The lighting design by LAM Partners has significantly lowered the energy required for lighting, which includes daylight dimming controls and occupancy sensors. Overall the building and the cogeneration unit are expected to produce 32 percent energy savings. The installation of low flow plumbing fixtures is anticipated to produce 47 percent annual water savings from a standard code compliant building.