

Dynetics

High-Tech Prototyping Facility



In an effort to expand research and development efforts and production capacity for an increasing demand of aerospace, cyber, and defense components in the Huntsville area, Dynetics sought to integrate a high-tech prototyping facility into Cummings Research Park, where their headquarters is located. The complex will support a variety of government and private industry clients in the surrounding area.

SSOE provided mechanical, electrical, plumbing, fire protection, structured cabling, audio visual and specialized clean room engineering design services for the 226,500 SF facility. SSOE worked in conjunction with Fuqua & Partners Architects, who performed master planning and the architectural design of the building. This unique complex includes a number of specialized testing areas, including an environmental testing lab, a clean room, cyber / information assurance lab, and an instrumentation lab. In addition, building construction included high and low equipment bays, chemical and equipment storage, office and employee workspaces, conference centers, and network and telecommunications systems throughout the complex.

Working closely with the Dynetics team, SSOE was able to understand their unique needs and offer solutions for a building that is both functional and comfortable to work in. As part of the project, SSOE implemented the use of a 'spine' type datum racking system in the architectural design of the building. This feature allows for all electrical, data, security cabling, and piping to be routed back through the research bays, allowing for accessibility, expandability, and inspection.

size 225,000 SF

location Huntsville, Alabama

highlights

110,000 SF laboratory and manufacturing space

Clean room

Fire protection

High-tech facility

Lighting design

3-story research building