



Project Profile:

Cleanroom Construction

Owner: Ultra Clean Technology

Location: Tualatin, Oregon

Evergreen Engineering provided complete engineering and construction management services for Ultra Clean Technology's high-purity gas delivery system fabrication facility in Tualatin, Oregon to assist in the installation of a new 4,300 SF Class 100/1000 Cleanroom.



Evergreen Engineering provided the following services:

- Preliminary Engineering
- Concept Option Development
- Construction Scope Development
- Construction Estimates
- Detailed Final Design
- Construction Schedule Development
- Material Procurement
- Complete Construction Management
- Startup/System Commissioning

Specific tasks included:

- IBC Code Analysis
 - Exiting
 - Facility Occupancy Classification
- Conceptual Layout Drawings
 - Plans, Sections and Elevations
 - Cleanroom Component Options
 - Airflow Diagrams
- Architectural Design
 - Class 100 Fabrication Area
 - Class 1000 Assembly Areas
- Structural Design
 - Ceiling/Air Plenum Support Structure
 - Foundation Design
 - Wall Supports

- Mechanical Design
 - HVAC Air Handler
 - Fan Filter Unit Arrangement
 - High Purity Piping Distribution
 - Cleanroom Pressurization
- Electrical Design
 - Convenience Power
 - Equipment Power
 - Welder Power
 - Energy Conservation Features
- Services During Construction
 - Construction Management
 - Submittal Review
 - RFI Response
 - Contractor Coordination
 - Construction Schedule
 - Contractor Payment
 - Energy Rebate Administration
 - Cleanroom Component Procurement

Evergreen Engineering Performance

Our level of expertise in both engineering and construction management was highly recognized during this project, in which the end-result astounded the client.