



## Project Profile:

# Facility Expansion Construction

**Owner: Ultra Clean Technology**

**Location: Hayward, California**

Evergreen Engineering provided complete engineering and construction management services for Ultra Clean Technology's facility expansion within its existing facility in Hayward, California. The project included renovation of 50,000 sq ft of office, 60,000 sq ft of manufacturing, and 12,000 sq ft of cleanroom installation.



### Evergreen Engineering provided the following services:

- Engineering Design
- Construction Management
- Architectural Design
- Structural Design
- Mechanical Design
- Fire Protection Design
- Electrical/I&C Design
- Commissioning Services

### Specific tasks included:

- Engineering/Construction Management
  - Provided project management through construction completion.
  - Scheduling and coordination of construction personnel.
- Architectural Design
  - Construction of walls to complete the new neat space and contain the cleanroom air within the area.
  - Installation of new flooring.
  - Installation of doors and cabinetry.
- Structural Design
  - Construction of concrete pad for gases.
  - Bracing and supports for seismic of all piping and ducting.
- Wet Mechanical Design
  - Provided and installed plumbing for various areas.
  - Installation of chilled water piping, new process cooling water system, and associated piping distribution.

- Dry Mechanical Design
  - Installation of HVAC ducting modifications for office, cleanroom, and manufacturing areas.
  - Installation of piping for CDA, N2, Helium, Argon, Hydrogen, and Oxygen.
- Electrical Design
  - Provided and installed lighting, electrical panels, transformers, and fire alarm systems devices.
- Commissioning
  - Commissioning of HVAC, Control, and Electrical systems.

### Evergreen Engineering Performance

Our previous experience in working with Ultra Clean in its facility in Tualatin, Oregon provided us with the knowledge and expertise to provide effective services for its facility in Hayward, California.