

Environments To Enhance Your Business Results



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Complete Turnkey Solutions for  
**Metrology Laboratories**

[www.precisionenvironments.com](http://www.precisionenvironments.com)



As a nationally recognized leader in laboratory innovation, Precision Environments is a one-stop source for world-class design-build metrology lab environments. Precision Environments turnkey offering covers the entire laboratory implementation process from concept to certification. With extensive industry knowledge, Precision Environments delivers high performing laboratory environments that enhance your business results.

# Laboratory Environments

## Metrology Labs

Precision Environments applies the required technology based upon the specific laboratory design requirements. PE's approach integrates the certification process and a guarantee that all metrology labs will meet ISO 17025 accreditation audit standards and specified performance criteria.

## CMM Rooms

As the nation's leading provider of coordinate-measurement-machine rooms, PE has a long history in CMM room design and installation. Unmatched quality and reliability have positioned PE as leaders in the design and construction of CMM rooms.

## Electrical Labs

PE designs and builds labs for electrical metrology. Many electrical standards such as the Josephson Junction PE occupy electrical labs. The unique feature to these labs is the shielding requirement. PE has developed a shielded enclosure which is bright and provides a work atmosphere that promotes employee comfort and productivity.

## Filter Weighing Labs

PE has designed and constructed many filter weighing labs. Customers include American and foreign auto manufacturers, universities and national laboratories. Filter weighing labs are often labeled cleanrooms, but cleanroom design concepts prevent accurate weighing of the filters. These filter weighing labs are actually very special Mass Metrology Labs, designed to conform to Federal Code of Regulations.

## Mass Labs

Mass Metrology is a very specialized process. Contaminates affecting this process include temperature stability, temperature gradients, convective air currents, humidity, barometric pressure, electrostatic discharge, particulate contamination and vibration. These contaminants contribute to measurement uncertainty. PE has the capability of controlling these contaminants, thereby, optimizing the mass measurement process.

## Other

Contact PE with specialized requirements for a lab, and allow PE to assist you in the design and building of the lab conforming to the strict or specified criteria your lab may require.

PE specializes in controlling the following environmental contaminants which could affect the measurement process.

Temperature Stability

Temperature Gradients

Humidity

Air Velocity

Particulate

Pressurization

Vibration

EMI/RFI

Electrostatic Discharge

Acoustics





## OUR PROCESS

# From Concept to Certification

### Performance Guarantee

PE guarantees that our laboratory environments meet your project specifications and exceed your expectations for quality and service.



Calibration Laboratory  
Certificate #2573.01



### 1 Concept and Planning

PE's engineers conduct site visits to understand process and personnel flow through the proposed laboratory for maximum utilization of the facility. The build site is reviewed for space utilization and design requirements. Our engineers work with the customers, identifying specific or unique requirements for the particular laboratory.

### 2 Design/Layout & Engineering

With over 25 years of experience in architectural, structural, mechanical, control systems and electrical design, PE's engineering team will design your laboratory to your custom requirements. PE will develop your laboratory blueprints with a focus on efficiency, compliance and scalability.

### 3 Project Management & Construction

PE's construction team includes an operations manager, project manager and construction manager. PE's laboratory construction process is managed to maintain or accelerate schedule, quality and safety. A PE manager is always on site to assist you in any needs you might have during the construction process.

### 4 Analysis and Certification

PE concludes all ISO/IEC 17025 accredited testing with comprehensive reports, detailed test procedures and test results. An endorsed A2LA calibration certificate is included with the test report.

### 5 Training & Service

PE offers full training for staff to maintain cleanliness protocols, proper operation of mechanical systems, overall operation of the laboratory and use of any control systems installed. Service agreements are available to ensure the proper performance of the laboratory, and extending the life of the mechanical equipment. These agreements also offer extended warranties and various levels of service for the customer's selection.



Precision Environments designs and builds laboratories to your specifications. PE delivers high performing metrology laboratory environments that enhance your technology, research and production processes. Precision Environments partners with you, the client, from initial concept to certification. Regardless of size, Precision Environments builds safety, compliance and customer satisfaction into every project.

Contact us to see how Precision Environments™ can partner with you to improve your business results.

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**Building to Higher Standards**