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 contaminates contribute to measurement uncertainty. PE has the capability of controlling these contaminates, 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.
Performance Guarantee
PE guarantees that our laboratory environments meet your project specifications and exceed your expectations for quality and service.

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.

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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