



We Specialize in
engineering excellence
and **innovative science**

The engineers at Quant Technologies LLC are experts in aerosol science with over 60 years of combined experience developing aerosol-based instrumentation.

Our mission is to bring high-quality, innovative, and affordable instrumentation to market to meet our customers' needs.

If you have innovative technology for new measurement or instrumentation, an unmet analytical need, or an idea that needs technical expertise to bring it to fruition, contact us.



QUANT
TECHNOLOGIES



What Can We Offer You?

Quant Technologies LLC has a history of successful partnerships with inventors and technology leaders. We are proud to offer the following services and expertise:

- Focused project management to rapidly bring new concepts to market.
- Expertise in electronics optics, mechanical design, firmware, software, modeling, chemistry, and cost-effective manufacturing.
- Creative, innovative design focused on the end users' needs.
- The latest modeling tools including Computational Fluid Dynamics (CFD), printed circuit board design, and 3D mechanical modeling Computer Assisted Design (CAD).
- Attention to detail with a focus on creating robust, simple, affordable instrumentation with an extended life time.
- Commitment to quality in our manufacturing facilities.

Quant Technologies LLC

Quant Technologies LLC was founded in 2003 as a partly-owned subsidiary of Power Engineering Manufacturing (PEM). Located in Blaine, Minnesota, Quant Technologies LLC designs, manufactures, and services scientific instrumentation used to measure the physical, chemical, and biological properties of particles, including airborne particles. PEM is an established electronic, mechanical, and software engineering company specializing in designing and manufacturing electromechanical linear and rotary actuators.

Since inception of the company, Quant engineers have worked with partners such as TSI Inc. (a world leader in aerosol instrumentation), Fluid Measurement Technologies Inc. (a world leader in ultrapure water contamination monitoring), Southern Illinois University Carbondale (SIUC), and Aerosol Dynamics Inc. (ADI) to develop instrumentation.

Quant Technologies LLC is committed to developing quality instrumentation. We are ISO 9001:2000 certified and CE certified and compliant.



Innovative, Effective Instrumentation

Quant Technologies develops instrumentation for a variety of industries and applications including pharmaceuticals, specialty chemical, semi-conductor manufacturing, foods, life science, research, government, and environmental monitoring.

Water-based Condensation Particle Counter (WCPC)

In 2003, Quant Technologies licensed a new technology from Aerosol Dynamics Inc. to develop a laminar-flow, water-based condensation particle counter (WCPC). Quant engineers have developed a line of instruments based on this technology.



LiquiTrak® Nonvolatile Residue Monitor (NRM)

Developed in partnership with Fluid Measurement Technologies Inc., the LiquiTrak® Nonvolatile Residue Monitor (NRM) is used to monitor impurities in ultrapure water systems for semiconductor manufacturing. Replacing the CPC in the original NRM 7700 with the innovative WCPC eliminated the need for n-butyl alcohol as the working fluid. The LiquiTrak® NRM is marketed exclusively by Fluid Measurement Technologies Inc.



QT-500 Nano Quantity Analyte Detector (NQAD™)

The NQAD™, used with HPLC, is a significant advance in aerosol-based HPLC particle detection. The NQAD™ offers a wealth of benefits including high sensitivity, superior linearity, an active-pumping drain system, an elegant user-friendly design, a small enough footprint to fit in any lab, and a lower cost of ownership than competing HPLC detectors. www.quant-nqad.com



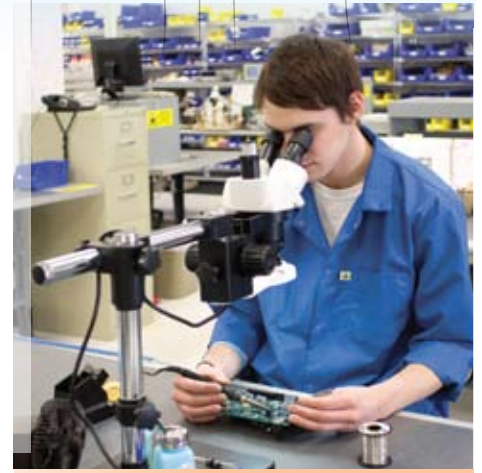
Quality Development and Manufacturing



At Quant Technologies LLC we are proud of our engineering and manufacturing facilities. We strive to provide optimum consulting, design, and manufacturing services by using the most up-to-date equipment, including the following:

- Electronic design.
- Optics testing.
- 3D mechanical modeling using Pro/ENGINEER CAD software.
- Computational Fluid Dynamics (CFD) using ALGOR software.
- Aerosol measurement including differential mobility analyzers, electrospray, atomizers for aerosol generation, an aerodynamic particle sizer, condensation particle counters, a scanning differential mobility particle sizer, and an aerosol electrometer for aerosol testing.
- Analytical chemistry instrumentation includes an Agilent HPLC system, a Dionex rapid resolution 3000 HPLC system, and detectors including UV, ELSD, charged aerosol, and the NQAD™.
- Firmware and software development.

Our laboratories are equipped with house air and nitrogen. The excellent production facilities available to Quant Technologies LLC through its parent company, PEM, include large, state-of-the-art production areas, raw material storage space, a prototype machine shop, and design and test laboratories.



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