



LABORATORY INSTRUMENTATION

Quest was founded in 1995 by a group of product development specialists with strong backgrounds in engineering, the physical sciences, and regulatory affairs. Our staff has continued to help clients design, develop, and manufacture:

**Water Quality Systems,
Time-of-flight Mass Spectrometers,
Conductive Instruments,
Electro-Analytical Balances,
Robotic Samplers, Titration Systems,
& pH Meters**

Sample Program

Quest designed, developed, performed market research, and verified a volumetric titrator platform in approximately 9 months and then subsequently leveraged this design into a number of other titration instruments with different feature sets, including an auto-sampling front end. Our effort on this program included:

**Requirements, Industrial Design,
Proof-of-Concept, Prototype,
& Design Transfer into
Customer's Manufacturing**

Additionally we conducted market research, created manufacturing fixtures and wrote much of the user manual.



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CONDUCTIVITY, ISE, & PH MEASUREMENT

Over the last 20 years, Quest Product Development has worked on several nonmedical products associated with the electrochemistry market place. These products include:

Traditional pH Meters, Multi-Parameter Water Quality Meters, & Bench Top Titrators Utilized in the Analytical and Industrial Laboratory

Critical elements in the design and development of all of these systems include:

- Application of the Nernst Equation for pH & Ion Specific Electrodes (ISE)
- Material Properties for Sensing, Reference Electrodes, & Liquid Junction Design
- High Impedance Amplifier Design, Processor Interface, Board Layout, etc.
- Industrial Design
- Low Voltage AC Design Environment
- Custom Probe Design
 - › Conductive
 - › ISE
 - › pH
- Driving & Sensing Conductivity & pH Probes
- Software
 - › User Interface
 - › Embedded Software Development
- Wireless Communication
 - › 802.11 b/g
 - › Blue Tooth
 - › HL7
- Industry Standards & FDA Regulations
 - › Design Control (*ISO-13485*)
 - › IPX67 or NEMA 4
 - › FDA 21 CFR 820

