CIRES/Chemistry Integrated Instrument Development Facility

CIRES/Chemistry Integrated Instrument Development Facility is multi-faceted, consisting of design, precision machine, electronics, and scientific glassblowing shops dedicated to the design and fabrication of scientific instrumentation. IIDF specializes in complete instrument development, from concept to testing, but is happy to assist our customers at whatever level is needed whether they are inside or outside the university community.

The IIDF is staffed by two Ph.D. scientists, three engineers, and a technician, who combined have over 120 years experience designing and building scientific instruments. State-of-the-art instruments have been provided for many departments at CU and other major universities and research institutions worldwide. A number of these instruments have been commercialized, patented, and are now in production by private companies.
IIDF Capabilities & Services

Microprocessor-Based Instrumentation
Data Acquisition Software
LabView Programming
Multi-Layer Printed Circuit Boards (PCBs)
Wire Electric Discharge Machining (EDM)
CNC Lathe & 2,3,4, Axis Mills
CAD Design and Modeling
Optical Systems
Ultrahigh Vacuum (UHV) Chambers
TIG Welding and Brazing for UHV
Precision Grinding
Electro Polishing
Electroplating: Al, Rh, Ni, Pd, Pt, Cu, Ag, Au, Ru
Exotic Materials Processing
Cryogenics
Lab Equipment & Appliances Repair
Refrigeration Servicing
Glassblowing—Pyrex & Quartz
Vacuum Dewar Evacuation
Metallizing and Special Coatings
Vacuum Leak Detection to 10-9 cc/s He

Contact Information

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