

CLEVELAND ELECTRIC LABORATORIES

ADVANCED TECHNOLOGIES GROUP

Test Cell Instrumentation

Component Instrumentation

The Test Cell Instrumentation engineers at our Tempe facility are single-minded and dedicated to the development of ideas, concepts, and devices that advance turbine engine testing. Our engineers' experience spans instrumentation for turbo chargers, turbo fans, turbo props, jets for power thrust, turbines for land based power generation, and hydro power engine testing.

Our TCI solutions include instrumentation, engineering, design, manufacturing, fabrication, and repair. Engine performance efficiency, accurate data gathering and weight reduction are three drivers of our work. Accurate and more rapid measurements for strain, temperature, pressure, and vibration are important goals, as are new instrumentation designs that can enhance testing. Using SolidWorks for 3-D modeling, our engineers initiate an instrumentation strategy that can include high frequency pressure transducers, high temperature sensors, mod machining and component instrumentation.

Machining Services

Our engineers work seamlessly with our in-house machine shop. Our master machinists prototype and produce many of the test instruments that we design. With sophisticated machine tooling and vast experience with engineering drawings, our machine shop can produce any tool needed for turbine engine repair, overhaul, or maintenance.

