EWI Overview

February 24, 2014

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About EWI

- Non-profit engineering services and R&D company
  - Develops, commercializes, and implements leading-edge manufacturing technologies to improve product performance, quality, reliability, and cost competitiveness

- Columbus Ohio Laboratory Capabilities
  - >132,000 square-foot facility with full-scale test labs
  - >$30 million in state of the art capital equipment
  - >140 engineers, technicians, industry experts
Leading-Edge, Cross-Cutting Manufacturing Technologies

Innovate, mature, commercialize technology for industry

- AcousTech™ Machining
- Advanced arc welding
- Automation, sensors, controls
- Brazing and soldering
- Dissimilar materials joining
- Friction processing
- Laser processing
- Material forming

- Nondestructive evaluation
- Numerical modeling and simulation
- Plastic and composite fabrication
- Resistance welding
- Ultrasonic additive manufacturing
- Ultrasonic joining
- Weldability and mechanical testing; metallurgical analysis

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Technical Services Span the Product Lifecycle

- Materials selection
- Manufacturability
- Formability
- Joining constraints

- Joint designs
- Process selection
- Design optimization
- Analytical modeling

- Process validation
- Automated systems development
- Process monitoring and controls
- Tooling development

Concept ➔ Feasibility ➔ Preliminary Design ➔ Detailed Design ➔ Manufacturing Transition ➔ Production

- Weldability analysis
- Process feasibility
- Joining trials
- Property characterization

- Process development
- Prototyping
- Testing and analysis
- Equipment specification

- NDE system design
- NDE process development
- Life assessment
- Failure analysis
EWI Applies Technology to Help Manufacturers Compete

- $100’s M in client impact annually across industry sectors
- New products launched, cost reduction, new market penetration

“We knew EWI had modeling capabilities… what we didn’t know is how cost effective these capabilities would be in helping us solve a real-world shop floor production issue.”

- Engineering Manager
EWI develops manufacturing technologies to improve product performance and reduce cost.

EWI works with clients to qualify, test and implement advanced manufacturing technologies.

EWI collaborates to extend our capabilities and deliver complete solutions.

EWI commercializes technologies with market leaders.
Come visit us to learn how EWI can help you!