EWI can help you meet the challenge

A world leader in developing and deploying new technologies which enable manufacturers to meet demands and stay ahead of the manufacturing revolution, EWI has developed multiple technology roadmaps designed to advance innovation, identify challenges, and set R&D priorities.

The Manufacturing Revolution impacts:

- Joining processes
- Forming processes
- Inspectability and quality assurance
- Design methodologies & tools
- Process monitoring & control
- Procurement protocols
- Design & fabrication cycles

High Performance Requirements

- Higher productivity
- Lower operating costs
- Improved energy efficiency
- Reduced weight
- Improved reliability

Availability of New Materials

- Lighter
- Stronger
- Less expensive
- Greener/cleaner

U.S. manufacturing output has increased 3.7% per year over the past 60 years.

EWI can help you meet the challenge - and avoid the costs of being behind.

Staying Ahead of the Manufacturing Revolution

Disruptive technologies, which cause dramatic shifts in industrial processes, affect both productivity and product performance. Advanced materials alone are expected to have a $500 billion economic impact by 2025.

EWI can help you meet the challenge - and avoid the costs of being behind.

It would seem we are moving away from... 

...traditional manufacturing approaches to be a bulk producer.

Yet experts warn that the road ahead is fraught with new technologies.

New technology roadmaps are resulting in lower labor-intense, more efficient product output.

In recent years we’ve seen increasing use of ...

And there’s more to come...

Change and manufacturing process requirements are changing. However, the rate at which these changes are occurring is at a pace we haven’t experienced in the past 60 years. In the auto industry, there are fundamental, radical shifts occurring at record time.

There have been advancements in manufacturing for as long as people have been building things. Right now, however, these changes are occurring at a pace we haven’t seen since the space race in the 1960s. In every industry, there are fundamental, radical shifts occurring in record time.

- Simulation and modelling
- Advanced robots
- Additive manufacturing
- Integrated computational materials engineering (ICME)
- Advanced materials
- Energy storage
- Advanced manufacturing processes for fuel and gas

Manufacturing is undergoing a change that is every bit as significant as the introduction of interchangeable parts or the production line—maybe even more so.

The Manufacturing Revolution is real.

Are you prepared for the Manufacturing Revolution?

ewi.org     614.688.5000

1 http://www.naefrontiers.org/File.aspx?id=46423
3 http://www.wsj.com/articles/SB10001424127887324063304578522812684722382

ewi.org     614.688.5000