

Purdue MEP Model



David R. McKinnis, Director
Technical Assistance Program

Purdue Model: Comprehensive Support of Manufacturing



Graduates



Assistance Programs



Lifelong Learning



Research

Purdue Office of Engagement

Purdue Technical Assistance Program

Purdue MEP Center

MEP Services

Energy Efficiency

Faculty Assistance



MEP Quick Facts FY 10-11

Funding and activity

- \$3,800,000 in funding from 85 sources
- Served 500 employers
- 3,239 employees trained
- 40 faculty, staff, student participants

Impacts

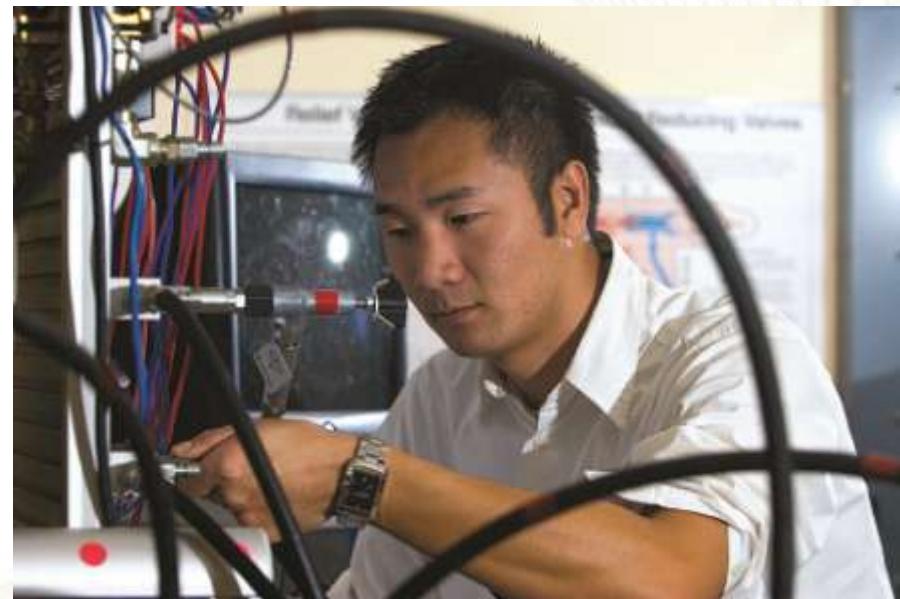
• Jobs added/saved	2,464
• Increased/retained sales	\$177.5 M
• Cost savings	\$16.5 M
• Capital investments	\$47.3 M



Programming

Over 100 Services

- Continuous Improvement
- Sustainability
- Supplier Development
- Technology Acceleration
- Workforce
- Innovation
- Consulting assistance



State and Federal Partnerships

- Indiana Economic Development Corporation (NIST MEP funds)
- State of Indiana (funds for business assistance)
- Indiana Department of Workforce Development (US DOL funds)
- Indiana Department of Energy Development (US DOE funds)

Business partners

- Advisory councils
- Customers

Purdue MEP Future

Focus

- Continued focus on needs and opportunities
- Providing exactly what is needed for the short and long term horizons, not canned programs

Resources

- More Partnerships: federal, state, universities, companies
- Fully integrated with Purdue's colleges of engineering, technology, science, management, etc.

Expanded Services

- Lifelong learning for the creative class, much provided on-line
- Innovation embedded in all programs

Faculty Assistance Project Example

Laser Welding

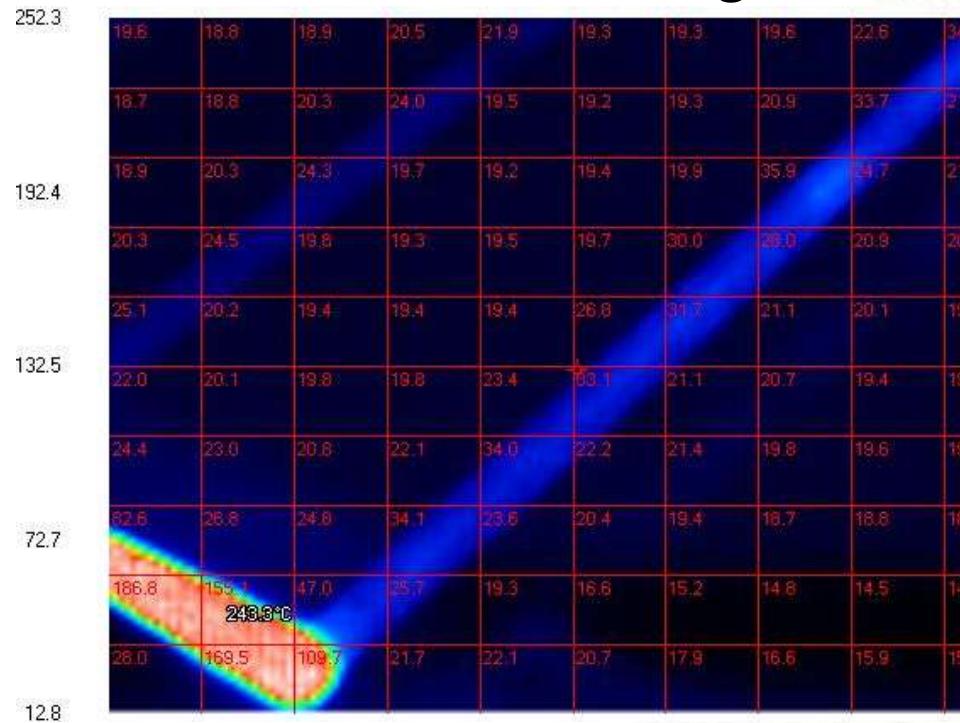


Figure 7. – Thermal image of laser leading edge during welding process. Maximum temperature achieved 252.3°C. Emissivity value (ϵ) of stainless steel used was 0.63

GreenED



GREEN GENERALIST – 8 instructional hours

LEVEL 1

GREEN SPECIALIST – Up to 48 instructional hours

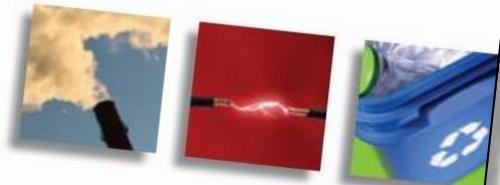
6 modules: Sustainability in Practice, Dumpster Dive, Energy Management, H₂O Conserve, Pollution Solutions, Green Chemistry

LEVEL 2

SME GREEN SPECIALIST CERTIFICATE – Earned
by passing exam

LEVEL 3

TECHNICAL ASSISTANCE PROGRAM



**GREEN
ENTERPRISE
DEVELOPMENT**

Ensuring a sustainable future

PURDUE
UNIVERSITY

Advanced Modeling & Simulation

Jeco Plastic Products



National Digital Engineering and Manufacturing Consortium
(NDEMC)

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