

Partners

- **Regional Employment Board of Hampden County, Inc.**
- **Western MA Chapter- National Tooling and Machining Association (WMNTMA)**
- **University of Massachusetts- Amherst**
- **Springfield Technical Community College (STCC)**
- **Economic Development Council of Western Massachusetts (EDC)**
- **Holyoke Community College (HCC)**
- **Six Vocational Technical High Schools**

PMRAP Background

- **PMRAP – Project Award – 2008-2010**
- **Organizing issue - Changing market place creating new demands on suppliers**
- **Unmet Needs**
 1. **Talent**
 2. **Technical assistance to address manufacturing bottlenecks and improve management capacity**
 3. **Manufacturing Technology to enhance competitiveness**
 4. **Information to enter expanded markets**

PMRAP Objectives

- **Strengthen partnerships** among sector companies and with local organizations to address current industry-wide issues, including workforce development and identification of new market opportunities.
- **Improve industry capability to engage new markets** by enhancing its infrastructure for technology development and integration through Technology Innovation Forums and a pilot Technology Transfer Program in partnership with UMass Amherst.
- **Improve industry capacity for innovation** by providing applications engineering support to assist firms in adopting new technologies, improving productivity, and expanding advanced manufacturing process, enabling companies to move up the supply-chain and tailor new manufacturing applications directly to growth markets.
- **Assess the feasibility of developing a Center for Advanced Precision Manufacturing Technology** that will serve as a sustainable industry “focal point” to provide services and lead growth initiatives.

Technology Innovation Forums

Objective

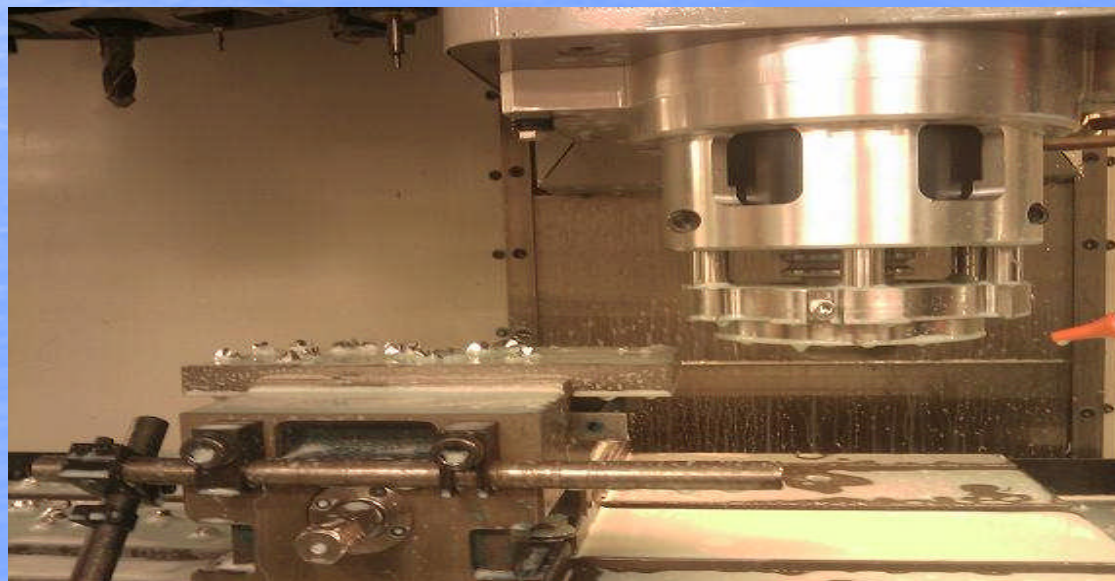
- Provide the precision machining companies and faculty researchers at UMass with an opportunity to exchange information about technology needs and relevant research/discoveries.

- **Forums Completed**
 1. Non-Metallic Machining and Processing Technologies
 2. Manufacturing Process Optimization
 3. Cryogenic Machining (Milling)
 4. Metals and Composites Interfaces
 5. Operational Process Improvement in a Changing Manufacturing Environment
 6. Cooperative Business Networks

PMRAP Technology Transfer

Cryogenic Machining (Milling)

**Research Team: WMNTMA Companies, REB,
UMass, STCC, Air Products & Chemicals**



New Business Development

- **Precision Manufacturing Collaborative of Pioneer Valley**
- **Partnering for Manufacturing Solutions and New Business**
- **www.pmcpv.com**



Workforce Development

Incumbent Employee Training

October 2006-April 2010

Enrolled	Completed	Completion %	Employee Cost per Completion
1176	1004	85%	\$204.40

New Pipeline Training

1. Springfield Technical Community College
2. Asnuntuck Community College
3. Massachusetts Career Development Institute

MCAPMT

Functional Elements

