

# The Advanced Materials and Manufacturing Center (AMMIC)

A Conceptual Overview  
for  
Spring AMTAS Meeting  
April 11, 2006

# Advanced Materials and Manufacturing Innovation Center (AMMIC)

This public-private partnership will establish a framework for a large-scale research, training and technology innovation system where the objectives of knowledge development human capital and domestic growth are integrated. The Center will offer the resources, services, research and training to strengthen the ability of the United States to remain globally competitive in advanced materials, applications, and processes. A business plan will be completed by late May-early June of 2006.

# Why is AMMIC needed

- The changing nature of manufacturing in a global economy
- New product innovations have transformed whole segments of the industry, creating a need for workers skilled in the application of advanced technologies, lean manufacturing processes, and systems integration
- Accelerated technology transfer

# Foundational Reasons

- The Washington State educational system is producing too few graduates with adequate skills in math and science
- Compounding this current skills gap is the reported aging of the manufacturing workforce

# What will be included in AMMIC?

- Training Classrooms
- Prototype Learning Lab
- Product Lifecycle Management (PLM) Labs
- Advanced Materials Lab
- Materials Analysis Lab

# Appropriations Request

- Federal 2007 Appropriations: Senator Cantwell, and Murray, Representatives Inslee and Larsen.
  - ✓ Capital request for \$2.3 million- 1<sup>st</sup> year of a three year request
  - ✓ Operations request for \$863,610- 1<sup>st</sup> year of a three year request.

# Materials Science Grants

- National Science Foundation- Materials Science Education Resource Center (MatEd) : \$1.5 million over four years

# Aerospace Grants

- Department of Labor: \$1.475 million over three years
- FAA- Composite Repair and Maintenance: \$250,000 over two years
- National Science Foundation: Space Tec partner- \$50,000 the first year, 2005-2006/ 4 year grant



## Adv. Manufacturing Grants

- **State Board for Community and Technical Colleges: Center of Excellence/Materials Process and Development Center (MPDC)- \$100,000 annually**
- **National Science Foundation-Certificates for Advanced Manufacturing (CAM) -\$810,000 over 3 yrs (pending final approval)**

## Medical Device Grants

- **Washington Workforce Training and Coordinating Board: Medical Device Skills Panel- \$81,000**
- **National Science Foundation-Medical Device Industry Education Consortium (MDIEC)- \$164,000 over 3yrs (pending final approval)**

## Math/Science Grants

- **National Science Foundation: SPRITE-**  
**\$700,000 over three years**
- **National Science Foundation: Gender**  
**Research of NSF ATE Projects-\$500,000**  
**over three years**

## Math/Science Grants (cont.)

- Department of Education: Math Across the Curriculum-\$100,000
- National Science Foundation: American Math Association for Two Year Colleges (AMATYC)- \$50,000 over one year

# Interested? How to get involved in AMMIC.

- **Advocacy**
- **Partnership development**
- **Political support**
- **Resources**

# Contact

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