National Symposium of 21st Century Community Colleges
Strengthening Workforce Development in India for the Global Economy

The Role of Community Colleges in Workforce and Economic Development
Realities, Possibilities, and Future Considerations
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Agenda

- Brief Introduction and Background
- Community College Workforce/Economic Development Mission
- Critical Elements of Successful Models
- Examples of Workforce Development Models in Aerospace
- Examples of Workforce Development Models in Semiconductor Industry
- Customized Training and Professional Development
- Closing Comments and Questions
Economic and Workforce Development Mission

- Economic Development: Attraction and Retention of Key Industries
  - Partnerships with local economic development agencies
  - Employee recruitment
  - Site selection
  - Support in workforce development

- Workforce Development:
  - Degrees (Career Programs and Transfer)
  - Credentialing and Certificate Programs
  - Student Internships
  - Customized Training
Key Elements of Successful Models

- Executive Leadership and Support
- Mission Driven
- Clearly Defined Strategy in Support of Local and Regional Workforce Needs
- Strong Industry Partnerships
- Supportive and Active Advisory Committees
- Outreach to Secondary Institutions (Pipeline)
- Faculty with Industry Experience
- Qualified Workforce Development Staff
- Relevant and Flexible Curriculum and Delivery Models
- Industry Recognized Credentials
- Regional, National, and Global Networks
Successful Models in Aerospace

- Brevard Community College (Florida)
- Edmonds Community College (Washington)
Brevard Community College

- Located in Florida in the heart of the “Space Coast”
- Spaceport Center located at the Kennedy Space Station
- Aerospace Technology Advisory Committee (40 Members)
- Standardized and Industry Endorsed Curriculum
- Institute for Business Training and Community Education
- Associate in Science (64 cr hrs)
- Nationally Recognized Certification Testing (SpaceTec)
Edmonds Community College

- Partnership with Aerospace Futures Alliance of Washington
- Washington Aerospace Training and Research Center
- Certificates, Degrees, and Transfer Programs
- Flexible Offerings
  - Grounded (classroom)
  - On-line and Hybrid
  - Multiple Locations
Successful Models in Semiconductors and Nanotechnology

• Maricopa Community College (Arizona)

• Hudson Valley Community College (New York)
Maricopa Community Colleges

- MATEC: Maricopa Advanced Technology Education Center
- National Skill Standards
- Industry Partnerships
- National Network
- National Science Foundation Funding
- Pipeline Development
- Faculty and Trainer Development
HVCC New York

- TEC-SMART Facility:
  - Training and Education Center for Semiconductor Manufacturing and Alternative and Renewable Technologies

- Saratoga Technology + Energy Park® (STEP®)
  - Economic Development Partnership

- GlobalFoundries
  - (Formerly Advanced Micro Devices Manufacturing Division)
  - $4.2 Billion Microchip Manufacturing Plant
Customized Workforce Training

- Client Focused Customized Training
- On-Site and Anytime
- Credit and Non-Credit
- Revenue Producing
- Business Enterprise
- Local, Regional, National, and Global Presence
- Global Corporate College
References and Resources

• Brevard Community College (State of Florida)
  – http://www.brevard.cc.fl.us/

• Edmonds Community College (State of Washington)
  – http://edcc.edu/

• Washington Aerospace Training and Research Center
  – http://washingtonaerospace.com/

• Aerospace Futures Alliance of Washington
  – http://afa-wa.com/

• SpaceTEC® National Resource Center
  – http://spacetec.org/

• Hudson Valley Community College TEC-SMART
  – https://www hvcc edu/tecsmart/index html
References and Resources Continued

- Maricopa Advanced Technology and Education Center
- Semiconductor Manufacturing Technician Skills Standards
  - [http://matec.org/work/work.shtml](http://matec.org/work/work.shtml)
- SEMATECH: Semiconductor Industry Association
  - [http://sematech.org/](http://sematech.org/)
- Global Corporate College
  - [http://globalcorporatecollege.com](http://globalcorporatecollege.com)
- Roland Miller Photography
  - [http://www.rolandmiller.com](http://www.rolandmiller.com)
Dhanyavad!