

# **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*  
**Dr. Richard J. Haney**  
**March 14, 2011**

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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

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## 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

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## 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

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## Successful Models in Aerospace

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



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# 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)



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## Edmonds Community College

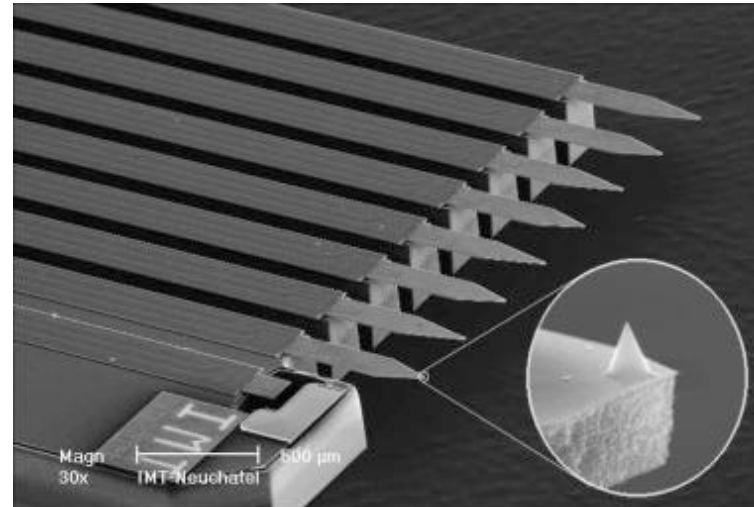
- Partnership with Aerospace Futures Alliance of Washington
- Washington Aerospace Training and Research Center
- Certificates, Degrees, and Transfer Programs
- Flexible Offerings
  - Grounded (classroom)
  - On-line and Hybrid
  - Multiple Locations



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## Successful Models in Semiconductors and Nanotechnology

- Maricopa Community College (Arizona)
- Hudson Valley Community College (New York)

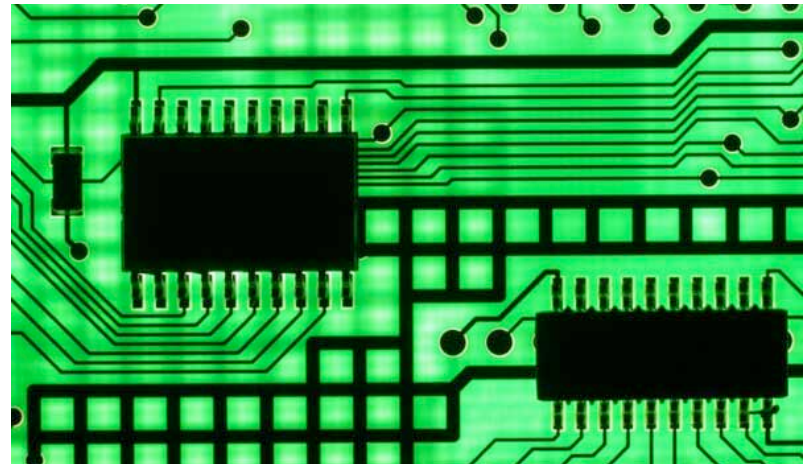




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# Maricopa Community Colleges

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

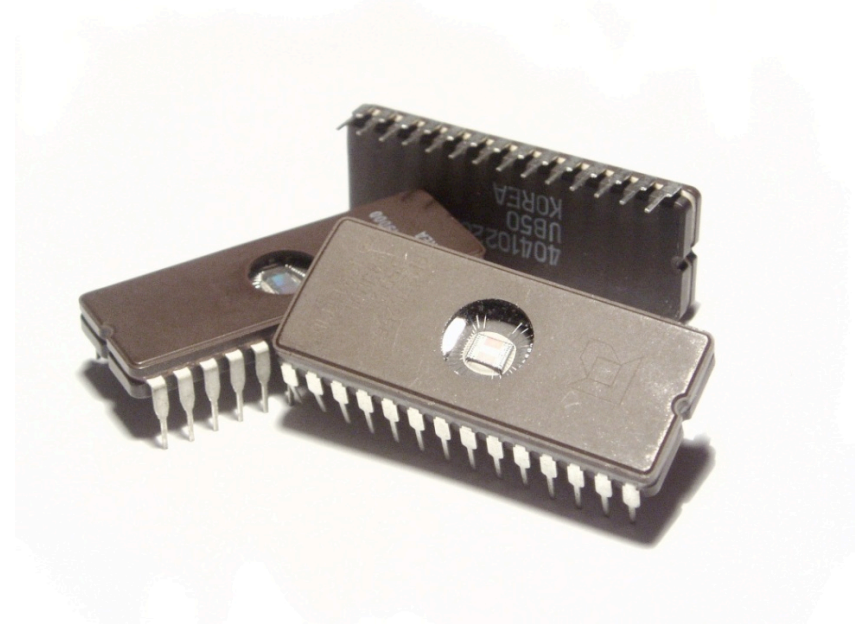


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# Hudson Valley Community College

## HVCC New York

- TEC-SMART Facility:
  - Training and Education Center for Semiconductor Manufacturing and Alternative and Renewable Technologies
- Saratoga Technology + Energy Park<sup>®</sup> (STEP<sup>®</sup>)
  - Economic Development Partnership
- GlobalFoundries
  - (Formerly Advanced Micro Devices Manufacturing Division)
  - \$4.2 Billion Microchip Manufacturing Plant



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## 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



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## 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://washingтонаerospace.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>

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## References and Resources Continued

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

A photograph of a Space Shuttle orbiter on the Mobile Launcher Platform (MLP) being moved by the Orbiter External Transporter (OET-3) on the crawler-transporter at night. The MLP is illuminated by blue and white lights, and the orbiter is lit from below. A water tower is visible on the right side of the image.

# Dhanyavad!

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