



ENTERPRISE & EMPOWERMENT
FOUNDATION
OF NORFOLK STATE UNIVERSITY

Research @ NSU

Finance Committee Briefing

... *June 19, 2008*

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Vice President for Research & Technology





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Discussion Nuggets

① Research Capabilities & Clusters

- “Plastic” Solar Cells – renewable energy source
- Nanotechnology and sensors
- Biotechnology – drug discovery and design (male contraceptive)
- Advanced Materials --
- Gaming, Modeling, and Simulation

② Research Infrastructure

- Facilities – one of a kind cleanroom in the region
- Unique tools
- Unique degree programs – Optical Engineering, Materials Ph.D.

③ Applications & Community Outreach

- Education & Training
- Economic Development – transportation logistics, etc

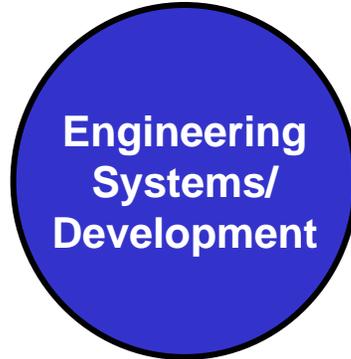


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Research Clusters



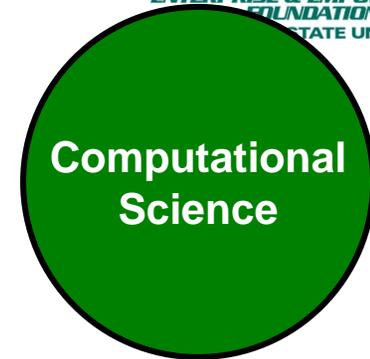
**Advanced
Materials**



**Engineering
Systems/
Development**



**Information
Assurance**



**Computational
Science**

- Energy
- Nanotechnology
- Spintronics
- Photonics

- Sensor Fabrication
- Photonic Devices
- Communications
- Image Processing

- Sensors Integration
- Net-Centric Operations
- Forensics
- Secured wireless nets

- Modeling & Simulation
- Biotechnology
- Quantum Computing
- Grid Computing

Materials Research, Engineering, Computer Science, Biology and Criminal Justice

**Labs, Industry,
Higher Education**

**Scalable Broadband
Infrastructure**

**Faculty,
Students, &
Staff**





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Research Infrastructure

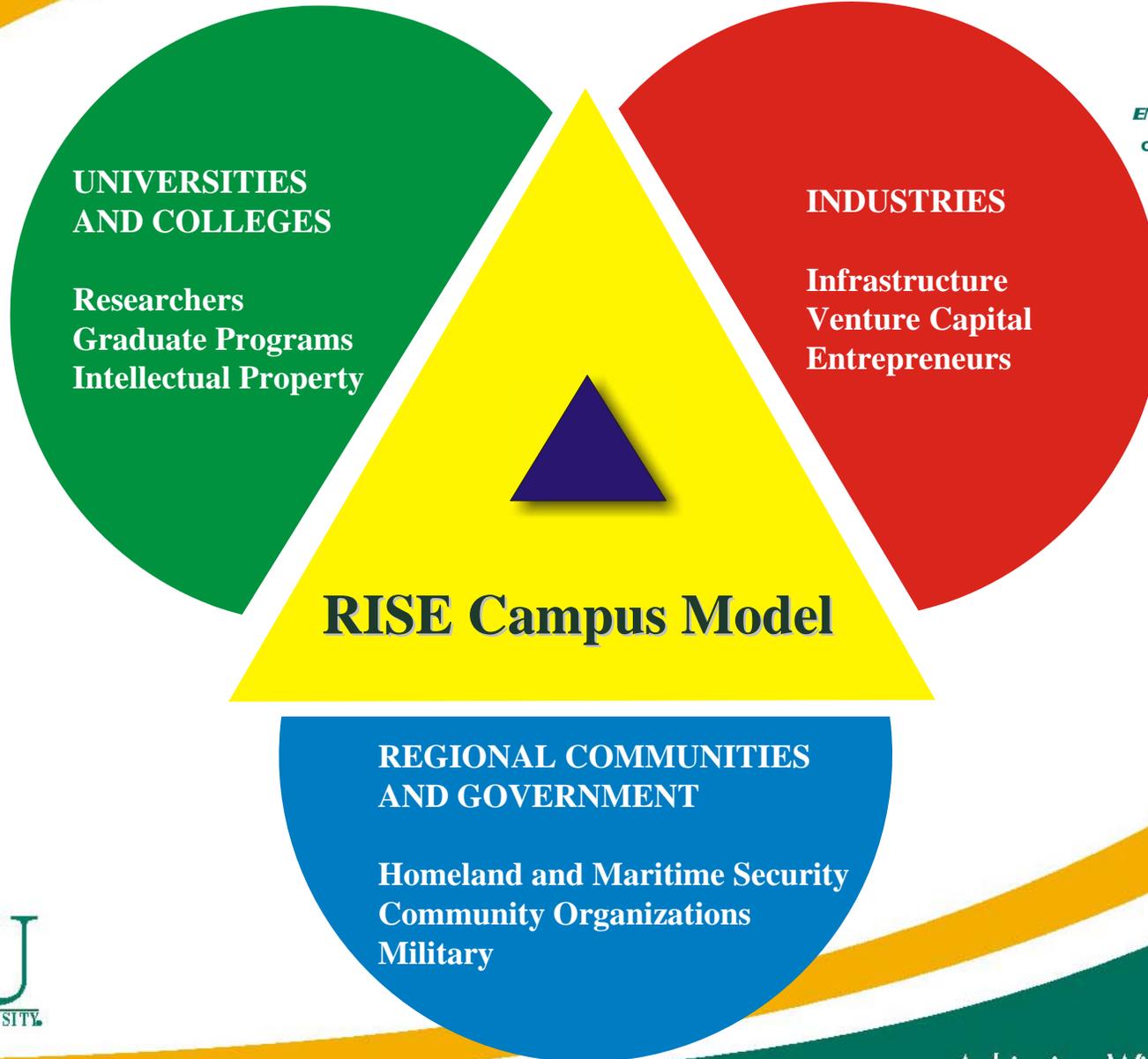
- 6-story applied research center
- Class 100/1000 Cleanroom
- Modern wet and dry labs
- Modern instrumentations
- B.S and M.S. in Optical Engineering
- Ph.D. in Materials Sc & Engineering
- Virtualization & Collaboration Center



Collaboratories



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The RISE Campus™



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RISE
SuperNodeSM

Marie V.
McDemmond
Center for
Applied
Research



The Discovery Quad



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Community Engagement Quad



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Commerce Quad



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Education & Training



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- K-16 game-based learning tools design
- e-Practice tools with embedded assessment
- Nanodays – exploring the microscopic world:
<http://nsu.edu/hbcurise/events.html>





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Demo

- If time permits



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Q&A

Questions and Answers