An I/UCRC is a collaborative effort among universities, large and small companies, state and government agencies, and other organizations for the purpose of conducting pre-competitive research of shared value.

This model has been successfully utilized and refined for over 30 years.

Mission:

Grow the U.S. innovation capacity by developing long-term partnerships among industry, academe, and government.

Leverage NSF funds with industry to support and train the next generation workforce within a global context.
The I/UCRC Model:
A Cooperatively Defined, Funded & Shared Research Portfolio

- Members **pool their funds** together to conduct pre-competitive research
- Members meet 2 times/year and collectively **vote** to recommend which projects to fund
- Members have access to faculty, students, and center resources at all sites
- Members have **rights to a royalty-free, non-exclusive license** to generated intellectual property

The NSF provides the operational framework, networking opportunities, additional funding opportunities, and more.
Benefits of Membership for Academe...

- New research and education program dimensions
- Student recruitment
- Leverage proof-of-concept results for new funding
- Trusted relationships with industry
- Ready partners for translation of discoveries
- Organize industry sector relationships

and Industry/Government

- High-value research projects
- Investment leveraging
- Sector networking
- Learning from industry peers and customers
- Pre-publication access to research
- Center researchers & facilities
- Access to talented students
Recent I/UCRC Fast Facts

1000 students trained in center research graduated in 2012

30% of graduates from I/UCRC centers were hired by members in 2011

68 centers

192 sites

>40 graduated I/UCRCs remain in operation true-to-model

Over 1000 industrial & government memberships
### Number of Centers in Each Focus Area

<table>
<thead>
<tr>
<th>Focus Area</th>
<th>Number of Centers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information Communication &amp; Computing centers</td>
<td>20</td>
</tr>
<tr>
<td>Energy &amp; Environment centers</td>
<td>10</td>
</tr>
<tr>
<td>Advanced Materials centers</td>
<td>8</td>
</tr>
<tr>
<td>Biotechnology, Health &amp; Safety centers</td>
<td>8</td>
</tr>
<tr>
<td>Advanced Manufacturing centers</td>
<td>7</td>
</tr>
<tr>
<td>Advanced Electronics, Phototonics Fabrication &amp; Processing centers</td>
<td>7</td>
</tr>
<tr>
<td>System Design &amp; Simulation centers</td>
<td>4</td>
</tr>
<tr>
<td>Civil Infrastructure System centers</td>
<td>4</td>
</tr>
</tbody>
</table>

### Program Contacts

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**Become a part of the I/UCRCs.** Find out how by contacting NSF program directors or center directors.

**I/UCRC Homepage:**  
nsf.gov/eng/iip/iucrc
# Funded Centers

- Advanced Knowledge Enablement
- Advanced Processing and Packaging Studies
- Autonomic and Cloud Computing
- Berkeley Sensor & Actuator Center
- Bio Energy Research and Development
- Broadband Wireless Appl. Center
- Center for Advanced Forestry Systems
- Center for Advanced Non-Ferrous Structural Alloys
- Center for Advanced Vehicle and Extreme Environment Electronics
- Center for Agricultural, Biomedical, and Pharmaceutical Nanotechnology
- Center for Arthropod Management
- Center for Biophotonic Sensors and Systems
- Center for Configuration, Analytics and Automation
- Center for Data Analytics
- Center for Design of Analog Digital Integrated Circuits
- Center for e-Design
- Center for Electric Vehicles
- Center for Electromagnetic Compatibility
- Center for Energy Harvesting Materials and Systems
- Center for Excellence in Logistics and Distribution
- Center for Freeform Optics
- Center for Friction Stir Processing
- Center for Fuel Cells (CFC)
- Center for Health Organization Transformation
- Center for High-Performance Reconfigurable Computing
- Center for Identification Technology Research
- Center for Integrative Materials Joining Science for Energy Applications
- Center for Metamaterials
- Center for Nondestructive Evaluation
- Center for Optical Wireless Apps
- Center for Particulate and Surfactant Systems
- Center for Pharmaceutical Development
- Center for Research in Intelligent Storage
- Center for Research in Storage Systems
- Center for Resource Recovery and Recycling
- Center for Spatiotemporal Thinking, Computing and Applications
- Center for Surveillance Research
- Center for the Integration of Composites into Infrastructure
- Center for Tire Research
- Center for Unmanned Aircraft Vehicles
- Center for Visual Decision Informatics
- Ceramics, Composites and Optical Materials Center
- Child Injury Prevention Studies
- Cooling Technologies Research Center
- Cyberphysical Operating Rooms
- Embedded Systems
- Energy-Smart Electronic Systems Center
- Experimental Research in Computer Systems
- Grid-Connected Advanced Power Electronics
- Hybrid Multicore Productivity Research
- Intelligent Maintenance Systems
- Laser and Plasma for Advanced Manufacturing
- Membrane Science, Engineering and Technology Center
- Net-Centric System and Software
- Next Generation Photovoltaics
- Power Systems Engineering Research Center
- Safety, Security, Rescue Research
- Science Center for Marine Fisheries
- Security and Software Engineering Research Center
- Silicon Solar Consortium
- Smart Vehicles Concepts
- Sustainable Integrated Buildings and Sites
- Telecommunications (Connection One)
- Visual and Decision Informatics
- Water and Environmental Technology
- Water Equipment & Policy
- Wheat Genetic Resource Center
- Wood-Based Composites Center

# Four International Sites

- **Russia:** Dubna International University
- **Germany:** Leibniz University Hannover
- **India:** Dharmsinh Desai University
- **Belgium:** Katholieke Universiteit Leuven