



Industry/University Cooperative Research Center (I/UCRCs)

Funded by the National Science Foundation

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



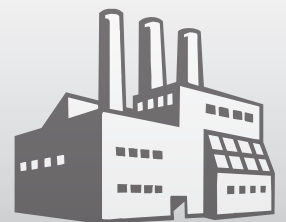
The NSF provides the operational framework, networking opportunities, additional funding opportunities, and more.

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



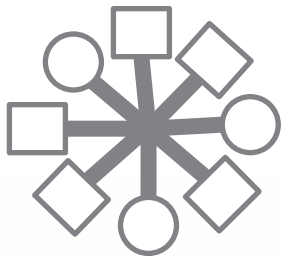
Recent I/UCRC Fast Facts

1000

students trained in center
research graduated in 2012

30%

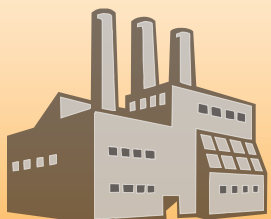
of graduates from
I/UCRC centers were
hired by members in 2011



68 centers



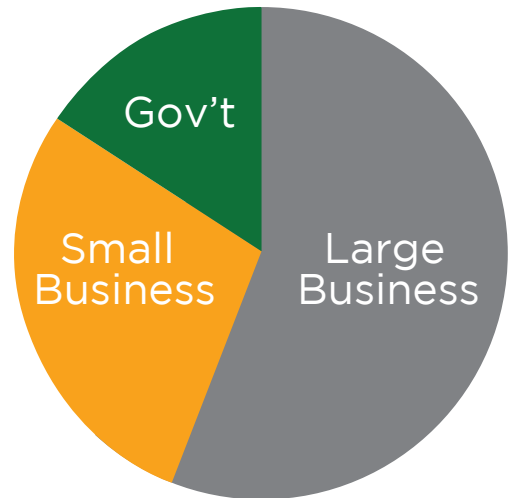
192 sites



Over 1000

industrial & government
memberships

Membership



>40

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

Number of Centers in Each Focus Area

20 Information Communication & Computing centers

10 Energy & Environment centers

8 Advanced Materials centers

8 Biotechnology, Health & Safety centers

7 Advanced Manufacturing centers

7 Advanced Electronics, Phototonics Fabrication & Processing centers

4 System Design & Simulation centers

4 Civil Infrastructure System centers

Program Contacts

Lawrence A. Hornak, Ph.D.
Program Director, ENG/IIP
voice: 703.292.2678
email: lhornak@nsf.gov

Shashank Priya, Ph.D.
Program Director, ENG/IIP
voice: 703.292.4709
email: spriya@nsf.gov

Rita V. Rodriguez, Ph.D.
Program Director, CISE/CNS
voice: 703.292.8950
email: rrodriguez@nsf.gov

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

