Industry University Cooperative Research Centers Program (I/UCRC):
more than 40 years fostering industry-university partnerships

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Emerging Frontiers in Research and Innovation (EFRI)
Innovation Corps (I-Corps)
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Engineering Education and Centers (EEC)
Chemical, Bioengineering, Environmental, and Transport Systems (CBET)
Civil, Mechanical, and Manufacturing Innovation (CMMI)
Electrical, Communications, and Cyber Systems (ECCS)

Industrial Innovation and Partnerships (IIP)
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IUCRC in the Innovation Spectrum

Resources Invested

Discovery  Development  Commercialization

University  Small Business  Investors  Foundations  Industry

Translational Research

Valley of Death

User-Inspired Fundamental Research

STC  GOALI  ERC  AIR/PFI  I/UCRC  SBIR  STC

Proofs-of-Concept, Partnerships, Workforce, IP, Tools…

IIP

ENG Overall  NSF Overall
The Industry/University Cooperative Research Centers (I/UCRC) Program

Mission:
• To contribute to the nation’s research infrastructure base by developing long-term partnerships among industry, academe and government
• To leverage NSF funds with industry to support graduate students performing industrially relevant research

Vision:
• To expand the innovation capacity of our nation’s competitive workforce through partnerships between industries and universities

Cooperatively Defined and Shared, Sector Precompetitive Research

1980’s 1990’s 2000’s 2010’s

40 years of fostering and growing long-term partnerships among industry and academe based on shared value
I/UCRC Fast Facts – FY13 Snapshot

Program Funding
- $17.8M in Program Funding (ENG, CISE)
- Nearly $130M in Total Center Funding
- 8:1 Leveraging of NSF funds.

Students
- Over 2000 students engaged
- 825 graduated in 2012, nearly 30% hired by members
- 285 PhDs, 322 MS & 218 UGs graduated in 2012, trained in Center research

Sustainability
- Over 40 Graduated I/UCRCs remain in operation true to model

National Scope of I/UCRCs
- 42 of 50 States
- 5 International Sites: Belgium, China, Germany, India, Russia

ENG – Engineering
Center Focus Areas (FY13 data)

1. **Advanced Electronics, Photonics Fabrication and Processing**: 8
2. **Advanced Manufacturing**: 8
3. **Biotechnology**: 5
4. **Advanced Materials**: 9
5. **Civil Infrastructure Systems**: 2
6. **Energy & Environment**: 10
7. **Health & Safety**: 3
8. **System Design & Simulation**: 3
9. **Information Communication & Computing**: 19

45 ENG Funded Centers
22 CISE Funded Centers
Creating a platform of opportunities: Industry-University Cooperative Research Centers Program

Linking Industry to Fundamental Research:
- Sector pre-competitive research cooperatively defined
- Shared I/U investment, shared risks
- Non-exclusive IP access
- Trusted relationships based on delivery of value
Creating a platform of opportunities:
Industry-University Cooperative Research Centers Program

I/UCRC Innovation Fellow (IIF)
Fundamental Research Program (FRP)
Innovation Managing Director (IMD)
Collaborative Research Opportunities (CORBI)
International Partnerships
SBIR/STTR Phase II

I/UCRC
User-inspired Fundamental research
Creating a platform of opportunities: Industry-University Cooperative Research Centers Program

- GOALI
- REU
- RET
- VRS

I/UCRC

Fundamental Research Program (FRP)

I/UCRC Innovation Fellow (IIF)

Collaborative Research Opportunities (CORBI)

Innovation Managing Director (IMD)

SBIR/STTR Phase II

International Partnerships
Creating a platform of opportunities: Industry-University Cooperative Research Centers Program

Facilitating the development of a robust and productive national innovation ecosystem that builds upon fundamental research and a highly skilled and broadly trained workforce.
National Science Foundation I/UCRC Contacts

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and: http://www.nsf.gov/eng/iip/iucrc

Note: The best way to contact us is via e-mail. Many are on the road frequently.