

Melba Crawford, Assoc Dean for Research Vicki Leavitt, SURF Program Manager Donna Young, Administrative Assistant

PURDUE ENGINEERING

Think impact.

Strategic Goal

- Conduct Research of Global Significance
 - Focus talent and facilities on research with potential for expanding boundaries of science and technology and addressing the global challenges and opportunities of the 21st century.



Office of Research Mission

- Support strategic development and operational management of the CoE research enterprise
- Promote the Discovery Park interdisciplinary philosophy and leverage interdisciplinary hiring
- Seek opportunities, networks and seed resources
- Support recruiting and appointment of research faculty and postdoctoral researchers
- Engage in industrial partnerships
- Educate and promote technology commercialization
- Involve undergraduate students in research



Major Funded Research Projects

- Department of Transportation NEXTRANS \$13M
- INSPIRE: Institute of (P-12) Engineering Research and Learning – \$5M
- Joint Transportation Research Program of Purdue University and Indiana Department of Transportation – \$51M since 1999
- Maha/NSF Engineering Research Center on Fluid Power – \$15M
- NSF-funded Network for Computational Nanotechnology (NCN) – \$36M since 2002

ENGINEERING

Think **impact.**

Major Funded Research Projects (cont.)

- NNSA PRISM: Center for Prediction of Reliability, Integrity and Survivability of Microsystems – \$17M
- NSF Engineering Research Center on Structured Organic Particulate Systems – \$15M
- Rolls Royce University Technology Center in High Mach Propulsion – \$5M
- NEES: NSF George E. Brown Network for Earthquake Engineering Simulation – \$105M
- NSF and DHS-funded VACCINE: Visual Analytics for Command, Control, and Interoperability Environments – \$15M

ENGINEERING

Think impact.

Office or Research: Major Responsibilities to the CoE

- Assist Dean with allocation of research related resources
 - Administer PRF graduate student fellowships, international faculty travel grants, and summer faculty research grants
 - Provide seed funding for strategic initiatives
 - Participate in infrastructure planning



Office of Research: Major Responsibilities to the CoE (contd.)

- Assist Faculty in Developing and Managing Research Grants
 - Publicize funding opportunities
 - Sponsor and coordinate workshops in areas of strategic need for research (e.g. CAREER awards)
 - Support team development and coordination
 - Assist in large scale proposal development, site visits, team meetings, program reviews
 - Provide cost share to proposals

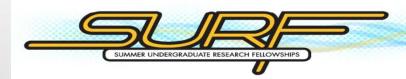


Office of Research: Major Responsibilities to the CoE (contd.)

- Liaison activities
 - Office of the Vice President for Research
 - Support limited submission competition process (30+ per year)
 - Represent CoE at Research Administration Meetings
 - Host external entities (companies, labs)
 - Assist faculty in networking with external partners
- Publicize College research activities
- Help with IP related issues



Office of Research: Major Responsibilities to the CoE (contd.)



- Manage and Fund Summer Undergraduate Research Fellowship Program
 - Mission of SURF: To provide a hands-on research experience for undergraduate students that will stimulate their interest in advanced education and possibly in a research career.

PURDUE ENGINEERING

Think impact.

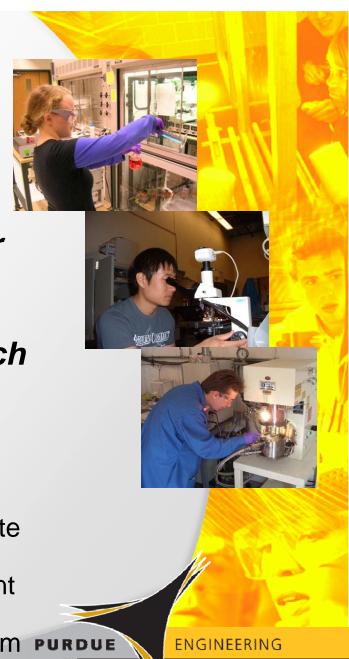


SURF: An intensive 11-week summer research experience for undergraduates

Largest undergraduate research program at Purdue

Program benefits for students:

- Receive pay for research activities
- Mentored by a faculty member and a graduate student
- Attend seminars on professional development including graduate school preparation
- Participate in the SURF Research Symposium PURDUE
- Network and socialize with other researchers



Think impact.



SURF 2010

- 170 summer participants
 - 20% women, 11% ethnic minority students
 - Average GPA 3.62
- 3 Participating Purdue colleges, 21 schools and departments, 109 professors, 130 graduate mentors

