2008-2009 Research, Vice Chancellor

Mission

The Office of the Vice Chancellor for Research (OVCR) consists of units dedicated to the advancement of the research enterprise at IUPUI. The primary units associated with OVCR consist of Research Development, the Center for Research and Learning, and the Solution Center. The mission of OVCR is to develop and expand innovative research programs that align well with institutional mission and strategic plan, address important national and global needs, and through technology transfer and commercialization noticeably support the economic development of Indiana and the nation.

Goals and Objectives

1. RESEARCH EDUCATION AND COMMUNICATION Goal: Enhance communication between the Research and Sponsored Programs Office and the IUPUI campus community and increase research education for IUPUI investigators.

Objective: Advertise internal and external funding opportunities, disseminate time sensitive information about grant and contract submission and award procedures, and changes in policy and regulations affecting research activity. Strengthen the educational programs on grantsmanship and the responsible conduct of research.

Campus Planning Theme: Research, Scholarship and Creative Activity

Secondary Goals:

Sub Unit:

Time Frame:

Actions taken for 2008-2009:

The Office of the Vice Chancellor for Research maintained the RESEARCH ENTERPRISE e-newsletter. The RESEARCH ENTERPRISE served as the primary mode of communication from the Office of the Vice Chancellor for Research to the IUPUI research community. The RESEARCH ENTERPRISE was published monthly, featuring time sensitive research information and links to information on grants and contracts, funding opportunities, research compliance, and research centers.

The Office of the Vice Chancellor for Research continued proactive efforts to inform faculty of research and sponsored program opportunities that ultimately impact the research enterprise on the IUPUI campus. One mechanism for distributing this information was via Research Notices sent regularly both directly to appropriate faculty and/or associate deans for research for further distribution.

Evidence of Progress for 2008-2009:

The Office of the Vice Chancellor for Research increased the RESEARCH ENTERPRISE subscription by more than 30% in FY 2008-09.

There were approximately 800 Research Notices distributed in FY 2008-09, which was about 10% more than the number of external funding notices distributed in FY 2007-08.

The Office of the Vice Chancellor for Research conducted a series of 10 Finding Funding and Community of Science/Scholars workshops and open lab sessions to link IUPUI faculty, staff and graduate students to research and sponsored program funding. There were a total of 42 attendees at these workshops. Moreover, OVCR sponsored proposal development workshops targeting participants from across campus, including those in the hard sciences, social sciences and the arts/humanities. In addition, OVCR staff members were invited to present funding search and proposal development workshops to faculty, staff and graduate students at the Schools of Business, Dentistry, Education, Liberal Arts, Medicine...
Activities planned for 2009-2010:

- Develop and implement strategic content plan for the Research Enterprise, creating discipline-specific themes per issue and alternating with OVC/R theme.
- Develop and institute submission/publication schedule and submission guidelines.
- Work with IUPUI Office of Communication Marketing to develop packaging for the first print publication of an OVC annual report to be strategically disseminated to stakeholders and potential funders/donors.
- Develop and implement OVC Research Imaging Initiative that involves strategic efforts to increase the diversity in research and scholarly activity images used in IUPUI/OVC marketing and communications materials and projects.
- Begin working with the IUPUI webmaster to revise the entire Center for Research and Learning web site to conform to the IUPUI award-winning web presence and comply with user-friendly web standards.
- Increase the number of subscribers to the RESEARCH ENTERPRISE by at least 100%, to include all current and new faculty, research staff and graduate students.
- Serve as a source for the IUPUI faculty and administration regarding facts and information on grants and contracts on the IUPUI campus.
- Increase efforts to push research and sponsored programs funding information out to the IUPUI academic community via RESEARCH ENTERPRISE and ongoing Research Notices.
- Identify candidates to serve on editorial board of the Research and Creative Activity system-wide research magazine to help shape the research content.
- Begin efforts to develop a research and creative activity photo gallery to reside on the OVC/R webpage.

2. RESEARCH DEVELOPMENT Goal: Facilitate growth of research on the IUPUI campus in all scientific areas, with an emphasis on interdisciplinary scientific collaboration in the area of the Health and Life Sciences, in order to move toward fulfilling the campus goal of doubling research.

Objective: The objectives were to stimulate research in new areas, support investigators with bridge funding between grant periods, encourage interdisciplinary research collaborations, and distribute internal funding in a way that increases the probability that IUPUI investigators will subsequently secure external funding.

Campus Planning Theme: Research, Scholarship and Creative Activity

Secondary Goals:

Sub Unit:

Time Frame:

Actions taken for 2008-2009:

The Office of the Vice Chancellor for Research co-sponsored, and financially subsidized, the annual GRANT WRITING WORKSHOP with the School of Medicine. This workshop is appropriate for all faculty members who are contemplating a competitive application to federal or state agencies or foundations in either basic science or clinical research. The workshop emphasizes idea development, how to write for grant reviewers, and tips and strategies for great grantsmanship.

The Office of the Vice Chancellor for Research worked with IUB to expand the current database of limited submission grant opportunities and developed a more systematic approach for disseminating information on limited submission grant opportunities.

Organized and hosted the IUPUI’s First Annual Research Day where Nobel Laureate Leon Lederman gave the keynote address to a near capacity audience (400) of faculty, students, administration, outside guests and more.

Organized 60 faculty oral presentations at the IUPUI’s First Annual Research Day that highlighted some of the most groundbreaking and innovative research at IUPUI.
Organized over 100 poster presentations at IUPUI’s First Annual Research Day that highlighted both student research and faculty research conducted by IUPUI Signature Centers.

Hosted a visit from the head of the Defense Advanced Research Agency (DARPA) where information about funding opportunities and strategies for pursuing DARPA funding was presented to over 100 faculty from multiple disciplines (Science, Engineering & Technology, Informatics, Medicine, Liberal Arts, and more).

Sponsored faculty to attend DARPA Physical Intelligence (PI) Proposers’ Day Workshop.

Internal

Developed and implemented the Roundtable series with the Vice Chancellor for Research (VCR) for over 83 new faculty to become more familiar with the IUPUI research enterprise and understand how the VCR’s Nine Golden Rules for Successful Research can promote a strong research program.

Developed three philanthropic initiatives to support major areas of research development (Research Frontiers Research Initiatives, Research Frontiers Distinguished Lecture Series, and Research Frontiers Student Fund).

Continue to co-sponsor and financially subsidize the annual GRANT WRITING WORKSHOP with the School of Medicine, which is normally held in the fall. This workshop is appropriate for all faculty members who are contemplating a competitive application to federal or state agencies or foundations in either basic science of clinical research. The workshop emphasizes idea development, how to write for grant reviewers, and tips and strategies for great grantmanship. This year 107 faculty attended, with 18% coming from non-medicine schools.

The Community of Science serves as Indiana University’s primary research funding and expertise search tool. We have been instrumental in promoting its use on the IUPUI campus by training IUPUI faculty on how to navigate the system. The number of IUPUI investigators using COS has increased progressively over the past 5 years: 1645 users in 2004; 1872 users in 2005; 2067 users in 2006; 2195 users in 2007; 2300 users in 2008; and 2537 users in the first half of 2009.

Consultations/Presentations/Training:

- Proposal development contacts: 158
- Finding Funding contacts: 191
- Community of Science contacts: 16

Grant Programs

Created a new component of the Research Support Funds Grant (RSFG) internal funding mechanism that provides an addition $20,000 to an award to support a doctoral student.

Created the new International Visiting Research Scholar internal funding program.

The Research Support Funds Grant (RSFG) mechanism attracted 43 proposals and $909,505 was awarded to 27 projects, 74% of which was health or life-science related.

The International Development Fund mechanism attracted 11 proposals and $90,520 was awarded to 7 projects, 29% of which was health or life-sciences related.

The Release Time for Research mechanism attracted 5 proposals and $29,891 was awarded to 3 projects, 33% of which was health or life-sciences related.

The Research Venture Award mechanism attracted 8 proposals and $30,280 was awarded to all 8 projects, 50% of which was health or life-sciences related.

Evidence of Progress for 2008-2009:
Programs and Services

Created a new component for the Research Support Funds Grant (RSFG) internal funding mechanism that provides an additional $20,000 to an award to support a doctoral student.

Created the new International Visiting Research Scholar internal funding program.

Received and processed through the RSFG mechanism 43 proposals, and awarded $909,505 to 27 projects.

Received and processed through the International Development Fund mechanism 11 proposals, and awarded $90,520 to 7 projects.

Received and processed through the Release Time for Research funding mechanism 5 proposals and awarded $29,891 to 3 projects.

Received and processed through the Research Venture Award mechanism 8 proposals and awarded $30,280 to all 8 projects.

Continued to co-sponsor and financially subsidize the annual (normally held in Fall) Grant Writing Workshop with the School of Medicine. This year 107 faculty attended (18% from non-medicine schools).

Continued to promote and train faculty in using the Community of Science (COS), which serves as the university’s primary research funding and expertise search tool. These efforts have been instrumental in the steady increase of IUPUI COS users over the past 5 years: 1645 users in 2004; 1872 users in 2005; 2067 users in 2006; 2195 users in 2007; 2300 users in 2008; and 2537 users in the first half of 2009.

Continued providing workshops, presentations, training programs and consultations to hundreds of faculty on proposal development, finding funding, and other aspects of developing a successful research program.

Initiatives

Co-partnered with the Office of the Vice Provost for Research (UB) in the development of an intercampus multidisciplinary Environmental Science research initiative, receiving university seed funding support from President Michael McRobbie in October 2008.

Co-partnered with the Office of the Vice Provost for Research (UB) in the development of an intercampus multidisciplinary Energy research initiative. These efforts initiated in Spring 2009, and by the completion of FY 2008-2009 had resulted in plans currently under implementation for the development of an IU Energy Research Roadmap.

Convened multidisciplinary research teams to develop research initiatives that have major impact on the research enterprise at IUPUI. One such initiative has already resulted in the formation of a multidisciplinary nanotechnology-oriented center and the submission of proposals to funding agencies for support of nanotechnology research and instructional efforts.

Developed three philanthropic initiatives to support major areas of research development, defined as Research Frontiers Research Initiatives, Research Frontiers Distinguished Lecture Series, and Research Frontiers Student Fund.

Organized and hosted the IUPU’s First Annual Research Day, which included Nobel Laureate Leon Lederman, who gave the keynote address to an audience of over 400 campus and outside participants. Moreover, there were 50 oral presentations and over 100 poster presentations, highlighting some of the groundbreaking research at IUPUI.

Hosted a visit by Dr. Robert Leheny, the head of the Defense Advanced Research Agency (DARPA), who met with groups of faculty and administrators, and made a presentation, on opportunities and strategies for pursuing DARPA funding, to over 100 faculty from many disciplines from across IUPUI, as well as from other campuses.

Sponsored faculty to attend the DARPA Physical Intelligence Proposers’ Day Workshop.

Conducted 10 roundtables, between the Vice Chancellor for Research and new faculty from across IUPUI, aimed at aiding recently hired faculty in becoming successful researchers and contributing to the research enterprise at IUPUI. Each roundtable included going over the Vice Chancellor’s Nine Golden Rules to Succeed in Research.
Center for Research and Learning (CRL)

The mission of CRL is to promote, create, and coordinate, through partnerships within and outside the institution, implementation of innovative inquiry-based learning programs that integrate research and education to provide effective pathways for lifelong active learning and professional development in support of students. During FY 2008-2009, through the multitude of its programs and services, CRL has served close to 500 students. The following examples are indicative of the programs and services provided by CRL:

The Multidisciplinary Undergraduate Research Institute (MURI) program doubled its Summer 2009 MURI teams of students and faculty mentors from 8 in 2008 to 16 in 2009.

The Alliance for Graduate Education and the Professoriate (AGEP) program sponsored workshops, including the Summer institute on "Avoiding a Career Recession: No Bailout Package Needed," in collaboration with the Preparing Future Faculty program, serving 200 participants.

The Louis Stokes Alliances for Minority Participation (LSAMP) program made significant impacts on closing the achievement gap of the underrepresented minority in STEM fields, as for example demonstrated by Beatrice Thungu being selected the Top Female Student at IUPUI.

CRL in partnership with the Simon Cancer Center Summer Research Program recruited 16 high school and college underrepresented (to cancer research) scholars to participate and conduct clinical and population-based biomedical cancer research with mentors.

CRL in partnership with the Bridges to the Baccalaureate Program recruited the first cohort of Ivy Tech Community College underrepresented minority students (9 full-time) to participate in a 2-year mentor-driven, laboratory-based research experience in biomedical and related fields, with an IUPUI School of Science faculty mentor and eventually transfer into an IUPUI School of Science baccalaureate program.

CRL initiated an electronic portfolio for students participating in its summer programs.

Solution Center

The mission of the Solution Center is to serve as IUPUI's "front door" to the community, to assist in the economic development of Central Indiana, by connecting the university's intellectual capital to the pressing needs of business, government, and the nonprofit sector. Drawing on the talent of IUPUI's faculty and students, the Solution Center facilitates partnerships with Indiana's leaders, designed to build human capital, respond to external challenges, and retain in the State the best and brightest baccalaureate and graduate degreed professionals. The following represent some of the Solution Center accomplishments realized in FY 2008-2009:

Received a 2nd grant for $900,000 from the Lilly Endowment, with matching support from the campus, for a total of $1.8 million in support IUPUI's work in the community.

Received over $120,000 from the Annie E. Casey Foundation, Central Indiana Community Foundation, The Clowes Fund, and the Nina Mason Pulliam Charitable Trust to support capacity-building efforts for the nonprofit community.

Facilitated 74 community partnerships, and provided 21 Venture Fund grants totaling $131,953.

Coordinated internships, class projects, and community-based research efforts, serving 268 participating students.

Partnered with the School of Public and Environmental Affairs, with support from the Indiana Campus Compact, to conduct a study of 1,200 nonprofit agencies in two Indiana counties. The findings are planned to be presented at national and international service-learning and engagement conferences in fall of 2009.

Posted 467 internships, 497 full-time positions, and 656 part-time positions through www.IUPUltalent.net, a campus-wide resource administered by the Solution Center.
• Assumed administrative and budgetary oversight responsibilities for the IUPUI Center for Research and Learning. Developed capacity building and streamlined operations. Reconstituted the advisory committee into the CRL Leadership Team.

• Strategically expanded the Office of the Vice Chancellor for Research with the creation of the Assistant Vice Chancellor for Research position, and two FTE staff, key new hires with specific expertise and credentials to help significantly move the IUPUI research enterprise toward a stronger research and scholarly portfolio.

• Assumed administrative oversight responsibilities for the IUPUI Signature Centers, including the development and implementation of processes and procedures to review and select new Signature Centers and monitor/evaluate the efficacy of these centers and the overall initiative.

• Planned and convened a first annual Signature Center reporting meeting for center directors to present center accomplishments.

• Assumed administrative and budgetary oversight responsibilities for the IUPUI Solution Center.

Activities planned for 2009-2010:

• Collaborate with the Research Ethics and Education Policy (REEP) office to plan and implement a 2009-10 Research Orientation session for new/existing faculty and research administrators, to serve as an introduction to the responsible conduct of research and research development activities at IUPUI.

• Develop and implement at least 2 agency-specific proposal development workshops in preparation for target grant programs.

• Continue to co-sponsor and financially subsidize the annual GRANT WRITING WORKSHOP with the School of Medicine, which is normally held in the fall. This workshop is appropriate for all faculty members who are contemplating a competitive application to federal or state agencies or foundations in either basic science of clinical research. The workshop emphasizes idea development, how to write for grant reviewers, and tips and strategies for great grantsmanship.

• Increase the number of proposal development workshops sponsored and presented by the Office of the Vice Chancellor for Research by 10%, to include workshops on internal grant programs.

• Offer at least 2 Finding Funding and 2 Community of Science workshops sponsored and presented by the Office of the Vice Chancellor for Research.

• Develop and implement a series of NSF workshops sessions, including 1-2 that feature NSF program directors as presenters.

• Invite at least 1 Nobel laureate to the IUPUI campus to present on a relevant research/scholarly related topic(s) and meet with select research teams and centers.

• Work closely with the New Faculty Orientation planners to ensure that an adequate amount of pertinent research-related content is offered to incoming faculty and develop programming to promote research development in their first as IUPUI faculty members.

• Pursue at least 2 of the 3 OVCR philanthropic giving initiatives that will have direct impact on entire IUPUI research enterprise.

• Develop and implement a strategic partnership/plan with the founding dean of the new IUPUI Honors College to enhance student research efforts on the IUPUI campus, particularly aligning undergraduate research with the IUPUI RISE initiative.

• Hire the new Center for Research and Learning director to help lead efforts to position the center for increased success in securing external funding and being recognized locally, nationally, and internationally as a premier center for student research initiatives, particularly in undergraduate research.

• Develop a Research Administrators Network to provide coordinated research development support for research faculty members within the schools/units.

• Continue to administer and oversee the IUPUI Signature Centers, including the development and implementation of processes and procedures to review and select new Signature Centers and monitor/evaluate the efficacy of these centers and the overall initiative.
• Conduct call for proposals for the 3rd round of the Signature Center Initiative.
• Plan and convene a second annual Signature Center reporting meeting for center directors to present center accomplishments.
• Create and implement new Developing Diverse Researchers with InVestigative Expertise (DRIVE) internal funding mechanism to enhance the diversity and research and creative activity mission of IUPUI. Faculty from underrepresented populations, normally defined as African-American, Latino-American, Native American, Pacific Islanders, and women will be particularly encouraged to apply. The DRIVE program will support projects that have the potential for sustainability through external funding.
• Create and implement new IUPUI Arts and Humanities Internal Grant (IAHI) funding mechanism to enhance the research and creative activity mission of IUPUI by supporting research projects and scholarly activities that are conducted by arts and humanities faculty. The program will be intended to stimulate existing and new research and creative activity, and to support faculty in becoming competitive in securing external funding and sponsorship.
• Revise the International Development Fund (IDF) internal funding mechanism to include additional categories for smaller awards to develop new international partnerships.
• Continue to promote COS as the primary search tool for funding opportunities and provide small and large group help sessions to better familiarize faculty with the COS system in order to most effectively navigate the tool.
• Work with IUB to revise the limited submission internal coordination process to ensure 100% compliance with agency limitations and that a fair process is implemented to select the candidates to move forward with application/nominations to such opportunities.
• Continue to emphasize that all investigators reapplying to an internal grant mechanism within the Office of the Vice Chancellor for Research must provide evidence that they have sought external funding prior to reapplication.
• Go through the Accelerated Improvement Process (AIP) with HR to further refine the limited submission (announcement, review and selection) process and institute any recommendations that come out of the AIP.

Fiscal Health

The accounts in the Office of Vice Chancellor for Research are managed and monitored by the Vice Chancellor for Research and the fiscal officer located in the Office of Academic Affairs via the FIS standard budget and accounting system. Accurate and timely reporting ensures the fiscal health of the Office of the Vice Chancellor for Research and supports decision making and planning processes. All institutional financial policies and accounting practices are followed.

Reallocation Plan

Other Question(s)

1) How are you dealing with the projected base budget reductions for 2009-10 and 2010-11? For instance, how will the projected base reductions affect your ability to deliver your current level of services to students, faculty, and staff? Will some planned initiatives have to be delayed or terminated?

To deal with the budget reductions, I have examined the services and expenditures associated with my unit, and have reduced expenditures in those areas that as much as possible would not impact the quality of services provided. I am also planning to possibly use some reserve funds associated with my office to minimize delay or termination of some planned initiatives.