

Research Enterprise

The Office of the Vice Chancellor for Research (OVCR) publishes the RESEARCH ENTERPRISE to keep the academic community and the community at large informed about research activities, opportunities and development on the IUPUI campus.

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August 19, 2008

MESSAGE FROM THE VICE CHANCELLOR FOR RESEARCH

Dear Colleagues,

As I start my tenure as the new Vice Chancellor for Research at IUPUI, I look forward to the opportunity of partnering with you to move the research enterprise forward on our campus. One of my priorities will be to assist in the development and expansion of innovative research programs that align well with the 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. Moreover, by building on the existing academic and research programs that you have contributed to creating over the years, we can aspire to the achievable goal of becoming one of the top urban research universities in the nation.



Vice Chancellor Kody Varahramyan

With this issue of the RESEARCH ENTERPRISE, we are also enhancing the format of this newsletter, in order to better communicate to you about a wide range of research related information. As part of this enhanced format, we also would like to highlight some of the campus research achievements in each issue of the newsletter. You may submit your noteworthy research news via the newsletter editor Ms. Etta Ward. Moreover, please do not hesitate to contact me with your comments and feedback about the research enterprise at IUPUI. In the weeks to come, I also hope to personally meet and interact with as many of you as possible. My office is also ready to serve you. You may contact us at 317-274-1020 or OVCR@iupui.edu.

Kody Varahramyan
Vice Chancellor for Research

IUPUI Researchers Contribute to IU Half Billion Dollar Record Milestone in Research Grants and Awards

Indiana University President, Michael McRobbie, recently announced that grants and awards to Indiana University were up 21% for fiscal year 2007-08. This translates to a record total of \$525.3 million compared to the 2006-07 total of \$433 million. IUPUI researchers played a significant role in reaching this exceptional milestone. Of the total awards to the Indiana University system, 57.6% was received by the Indianapolis campus. Federal grants accounted for 50% of the awards to the IU system and 67.7% of those awards were made to the Indianapolis campus. The National Institutes of Health (NIH) was the primary federal funding source and provided 29.1% of the awards to the IU system. The majority (82.7%) of these awards were made to the Indianapolis campus. The National Science Foundation (NSF) was the second largest federal contributor and provided (5.4%) of the awards to the IU system. The majority of the NSF awards (67.5%) were made to the

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If you have a news item or recent noteworthy research-related achievement that you would like to share, please contact Etta Ward at emward@iupui.edu.

Please be aware that not all news items will be deemed appropriate or timely for publication, but each item will be carefully considered.

Bloomington campus. The majority (85.4%) of the awards to the Indianapolis campus were made to researchers in the School of Medicine. The School of Liberal Arts had the next highest amount of awards followed by the School of Science.

UPCOMING OVCR INTERNAL GRANT DEADLINES

RESEARCH SUPPORT FUNDS GRANT (RSFG): The IUPUI Research Support Funds Grant (RSFG) program is designed to enhance the research mission of IUPUI by supporting research projects and scholarly activities that are sustainable through external funding. The next Research Support Fund Grant (RSFG) application deadline is October 15, 2008. For grant guidelines and application forms, go to <http://research.iupui.edu> and click on the appropriate side bar.

INTERNATIONAL DEVELOPMENT FUND GRANT (IDF): The IUPUI International Development Fund (IDF) grant program is designed to stimulate international activities that will lead to external funding. The next IDF grant application deadline is November 15, 2008. For grant guidelines and application forms go to <http://research.iupui.edu> and click on the appropriate side bar.

UPCOMING OVCR SPONSORED WORKSHOPS

Finding Funding

When: Tuesday, September 09, 2008 | 10:00 AM-11:30 AM
Where: University Library, 1126

This session will provide an overview of the various types of external funding sources, identify tools to locate funding opportunities, explain how to design a funding search, and demonstrate a couple of knowledge management systems that contain thousands of funding opportunities available through university subscription. [Workshop Registration](#)

Community of Science-Find Collaborator and Funding

When: Thursday, September 18, 2008 | 10:00 AM-11:30 AM
Where: University Library, 0106

Indiana University is a member of the Community of Science (COS). Whether your work is in the arts or the sciences, COS funding and expertise search tools and services can help support and advance your research and scholarly activity. Learn how to take full advantage of these services and help our institution promote its work. This event is a hands-on open lab session. [Workshop Registration](#)

Strategies for Developing Successful Grant Proposals

When: Tuesday, September 30, 2008 | 1:00 PM-3:00 PM
Where: University Library, 1126
Presenter: Eric R. Wright, Ph.D., Professor and Director, Center for Health Policy, School of Public and Environmental Affairs

This session will focus on the essentials of preparing a successful grant proposal. A special emphasis will be placed on faculty and staff who are just getting started or thinking about writing grants. A variety of topics will be covered including critical preparatory steps, writing tips, interpreting agency guidelines, and understanding the broader context of grant making.

[Workshop Registration](#)

DID YOU KNOW?

Campus Facts

- For the last fiscal year (2007-2008), awards income to the Indianapolis campus was up 2.8% compared to the previous fiscal year.
 - For the same period, the number of awards increased by 15.2%.
 - For the same period, the number of proposals submitted was up 6.1% and the amounts requested in those proposals were up 12.3%.
-

CURRENT EXTERNAL FUNDING OPPORTUNITIES

Funding opportunities in this section include selected current grant announcements from federal agencies for new initiatives and changes to existing programs. Announcements with limited scope are not listed here but are, instead, sent directly to IUPUI School Deans. For comprehensive coverage of funding opportunities please use the on-line search tools listed at the end of this newsletter.

NATIONAL INSTITUTES OF HEALTH

DEVELOPMENT OF MODELS TO FORECAST MEDICARE EXPENDITURES

The focus is on developing innovative models to forecast Medicare expenditures, or providing insight on key factors that contribute to Medicare expenditures (e.g. cost growth). Potential topics on cost growth include but are not limited to: the impact of spillovers or cost-shifting between the Medicare sector and the private health care sector; estimating the relationship between changes in income and changes in the demand for medical care; medical technology as a driver of costs, and the policy responses to this trend; measuring the relationship between expenditures and health status; trends in mortality and morbidity, and how they impact cost projections; the role of socioeconomic status and health-related behaviors and inputs in driving cost projections; cross-national comparisons for cost growth determination; plan features that reduce spending and their impact on health; and the impact of regional variation in expenditures and health.

Application deadline is October 29, 2008. Learn more at: <http://grants.nih.gov/grants/guide/rfa-files/RFA-AG-09-007.html>

SOCIAL NEUROSCIENCE OF AGING

The focus is on the neurobiological and genetic foundations and correlates of social behaviors and social relationships of relevance to aging, with particular emphasis on the mechanisms and pathways linking social behaviors and social relationships to the physical health, functionality, and psychological well-being of middle-aged and older adults. The National Institute of Aging is interested in both basic and translational research on these topics, and strongly encourages applications that explore these themes at multiple levels of analysis. Both human and animal studies are appropriate. Research projects that (1) link the social neuroscience laboratory with population-based research, (2) cross traditional disciplinary barriers within the biological and behavioral sciences, or (3) offer bridges to translational efforts to

improve social function and enhance social roles in older adults are particularly encouraged. There is the strong expectation that applications in response to this FOA will support new lines of research by interdisciplinary teams. Application deadline is October 31, 2008. <http://grants.nih.gov/grants/guide/rfa-files/RFA-AG-09-006.html>

RESEARCH ON INTERVENTIONS THAT PROMOTE RESEARCH CAREERS

The focus is on research that will test explicitly identified assumptions and hypotheses that undergird existing or potential interventions intended to increase interest, motivation and preparedness for careers in biomedical and behavioral research, with a particular interest in those interventions specifically designed to increase the number of students from underrepresented groups entering careers in biomedical and behavioral research. The proposed research need not be restricted to underrepresented minority students. Comparative research that analyzes the experience of all groups in order to place that of underrepresented students in context and to learn whether and how interventions should be tailored to make more underrepresented students successful in biomedical careers may well be particularly illuminating and is, therefore, encouraged.

Application deadline is October 30, 2008. <http://grants.nih.gov/grants/guide/rfa-files/RFA-GM-09-011.html>

ADDRESSING THE MENTAL HEALTH NEEDS OF RETURNING COMBAT VETERANS IN THE COMMUNITY

National Institute of Mental Health (NIMH) solicits applications to study the impact of existing national, state, and/or local community-based programs addressing the adjustment and mental health needs of recent combat veterans, including returning National Guard, Army Reserve, and newly separated active duty personnel. Research projects supported through this FOA will produce new information concerning effective strategies for fostering successful transition from combat to civilian roles for returning service members. NIMH expects that knowledge gained will benefit service members and their families, employers, and relevant federal, state, and local agencies, and will inform future initiatives for recently returned combat veterans.

Application deadline is October 28, 2008. <http://grants.nih.gov/grants/guide/rfa-files/RFA-MH-09-070.html>

NEURAL AND BEHAVIORAL PROFILES OF COGNITIVE AGING

National Institute on Aging (NIA), National Institutes of Health, invites applications for research examining the neural and behavioral signatures of age-related changes in cognition, with particular emphasis on the determination of characteristics that distinguish healthy age-related cognitive change from pathological cognitive change. The purpose of this FOA is to stimulate basic research to identify neural and behavioral profiles of cognitive aging, particularly applications that explore these areas at multiple levels of analysis. Applications that advance the interpretation and understanding of whether and how the brain and/or behavior changes and adapts with age for maintenance of good cognitive function are encouraged. Both human and animal studies are appropriate.

Application deadline is November 3, 2008. <http://grants.nih.gov/grants/guide/rfa-files/RFA-AG-09-010.html>

ROLE OF ONTOGENY ON DRUG METABOLIZING ENZYMES, TRANSPORTERS, RECEPTORS AND SIGNALING PATHWAYS ACTIVITY ACROSS DEVELOPMENTAL PERIODS

The focus is on encouraging multidisciplinary, investigator-initiated, basic and translational research in developmental pharmacology with particular emphasis on the role of ontogeny on drug metabolizing enzymes, transporters, receptors and signaling pathways activity across developmental periods from fetal life to adolescence.

Application deadline is September 22, 2008. <http://grants.nih.gov/grants/guide/pa->

NATIONAL SCIENCE FOUNDATION

GRADUATE RESEARCH FELLOWSHIP PROGRAM (GRFP)

The Graduate Research Fellowship provides three years of support for graduate study leading to research-based master's or doctoral degrees and is intended for students who are in the early stages of their graduate study. An estimated 900 - 1,600 fellowships will be awarded in this competition. The current stipend is \$30,000 and \$10,500 provided to the institution for tuition and fees.

Application deadlines are from November 3, 2008 to November 12, 2008 depending on the subject area. http://www.nsf.gov/pubs/2008/nsf08593/nsf08593.htm?govDel=USNSF_25

DEVELOPMENTAL AND LEARNING SCIENCES (DLS)

The focus is on fundamental research that increases our understanding of cognitive, linguistic, social, cultural, and biological processes related to children's and adolescents' development and learning. Among the many research topics supported by DLS are: developmental cognitive neuroscience; development of higher-order cognitive processes; transfer of knowledge from one domain or situation to another; use of molecular genetics to study continuities and discontinuities in development; development of peer relations and family interactions; multiple influences on development, including the impact of family, school, community, social institutions, and the media; adolescents' preparation for entry into the workforce; cross-cultural research on development and learning; and the role of cultural influences and demographic characteristics on development. Additional priorities include research that: incorporates multidisciplinary, multi-method, microgenetic, and longitudinal approaches; develops new methods, models, and theories for studying learning and development; and integrates different processes (e.g., learning, memory, emotion), levels of analysis (e.g., behavioral, social, neural), and time scales (e.g. infancy, middle childhood, adolescence).

Application deadline is January 15, 2008. http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=8671&govDel=USNSF_25

SOCIAL AND BEHAVIORAL DIMENSIONS OF NATIONAL SECURITY, CONFLICT, AND COOPERATION (NSCC)

The National Science Foundation (NSF) and the Department of Defense (DoD) are initiating a university-based social and behavioral science research activity, as part of The Minerva Initiative launched by the Secretary of Defense, that focuses on areas of strategic importance to U.S. national security policy. NSF and DoD intend: 1) to develop the DoD's social and human science intellectual capital in order to enhance its ability to address future challenges; 2) to enhance the DoD's engagement with the social science community; and 3) to deepen the understanding of the social and behavioral dimensions of national security issues. In pursuit of these objectives, NSF and DoD will bring together universities, research institutions, and individual scholars and will support disciplinary, interdisciplinary and collaborative projects addressing areas of strategic importance to national security policy.

Required letter of intent due September 30, 2008. http://www.nsf.gov/pubs/2008/nsf08594/nsf08594.htm?govDel=USNSF_25

INTERAGENCY OPPORTUNITIES IN METABOLIC ENGINEERING (ME)

Proposals are invited that address conceptual and technical approaches that further the development and utilization of metabolic engineering. Four areas are of particular interest: Instrumentation, sensors, new analytical tools, and new experimental methods that facilitate the study of metabolic pathways, especially those technologies that allow the examination of individual cells; Quantitative and conceptual approaches (e.g. metabolic flux analysis) integrated with experimental studies that better characterize the regulation and integration of complex, interacting

metabolic pathways; The use of bioinformatics to deduce the structure, function, and regulation of major metabolic pathways; The engineering of metabolic pathways to produce novel and/or important substances or otherwise address novel problems in understanding or manipulating such pathways.

Application deadline is October 22, 2008. http://www.nsf.gov/pubs/2008/nsf08588/nsf08588.htm?govDel=USNSF_25

MATERIALS WORLD NETWORK: COOPERATIVE ACTIVITY IN MATERIALS RESEARCH BETWEEN US INVESTIGATORS AND THEIR COUNTERPARTS ABROAD (MWN)

The National Science Foundation is working jointly with counterpart national, regional and multinational funding organizations worldwide to enhance opportunities for collaborative activities in materials research and education between US investigators and their colleagues abroad. Proposals submitted to NSF in response to this solicitation must have clear relevance to research supported by the NSF Division of Materials Research (DMR), as they will be evaluated within the context of programmatic areas within DMR: condensed matter physics, solid state and materials chemistry, polymers, biomaterials, metals, ceramics, electronic materials, and condensed matter and materials theory.

Application deadline is November 17, 2008. http://www.nsf.gov/pubs/2008/nsf08590/nsf08590.htm?govDel=USNSF_25

FOUNDATION OPPORTUNITIES

JOHN SIMON GUGGENHEIM MEMORIAL FOUNDATION

Fellowships for advanced professionals in all fields (natural sciences, social sciences, humanities, creative arts) except the performing arts.

Application deadline is September 15, 2008. <ftp://207.86.8.76/BR/2008/US08.pdf>

IDENTIFYING FUNDING OPPORTUNITIES

On-line search tools are available to IUPUI investigators who are interested in identifying funding opportunities in their areas of interest. Several are listed below:

Community of Science (COS): COS is a primary on-line search tool for identifying funding opportunities. To take advantage of this tool, register at <http://www.cos.com/login/join.shtml>. Once you have completed the short registration process, you can personalize your search by selecting the option entitled "launch your workbench". You can access federal, local, corporate, foundation, nonprofit and other funding opportunities using key terms and save the results of up to 20 searches and have them delivered to you weekly via email.

National Institutes of Health (NIH) "NIH Guide": To take advantage of this search tool, register at <http://grants.nih.gov/grants/guide/listserv.htm>. It allows you to receive discipline specific funding opportunities that are delivered to you weekly via email.

National Science Foundation (NSF) "MyNSF": To take advantage of this search tool, register at <http://www.nsf.gov/mynsf/>. It allows you to receive discipline specific funding opportunities that are delivered to you weekly via email.

Federal Business Opportunities "FedBizOpps": FedBizOpps is the single government point-of-entry for Federal government procurement opportunities over \$25,000. To take advantage of this search tool, visit <http://vsearch1.fbo.gov/servlet/SearchServlet>. Opportunities found at this site include, but are not limited to,

presolicitations and special notices for research and service contracts for specific projects and some national centers and surveys that would not be found in Grants.gov and may not be found in the Community of Science.

Limited Submission Funding Opportunities: Occasionally a funding agency places a limitation on the number of proposals that can be submitted from a campus or university system. For a description of the upcoming "limited submission" funding opportunities, as well as guidelines and application forms, go to: <http://ovpr.indiana.edu/lmsub/lmsub.asp> or contact Etta Ward in the IUPUI Office of the Vice Chancellor for Research: emward@iupui.edu or 317.278.8427.

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