

# 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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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](mailto:emward@iupui.edu).

Please be aware that

August 14, 2009

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## FEATURE STORY

### IUPUI Partners in Consortium to Build Education and Workforce Training Around Electric Vehicle Technology

Indiana is primed to become the center of innovation as a result of the \$6.1 million in stimulus funds announced by President Obama, on August 5. The award was made to Purdue University in support of the Indiana Advanced Electric Vehicle Training and Education Consortium (Consortium), which will include Purdue University West Lafayette, Notre Dame University, Indiana University-Purdue University Indianapolis, Ivy Tech Community College, Purdue University Calumet and Indiana University Northwest.

The primary goal of this grant is to create quality electric vehicle education and workforce preparation in the green jobs sector, to include the design, manufacturing and maintenance of advanced electric vehicles and the associated infrastructure. The Consortium will develop degree and certificate programs that will include certificate and associate degree programs for vehicle technicians, bachelor's and master's degree programs for electric vehicle design and manufacturing engineers, and a certificate program in electric vehicle safety for emergency responders. In addition, Outreach efforts will be developed and implemented to target secondary schools, and a Web site for the general public will be created to provide information on electric vehicles.

According to Dr. Yaobin Chen, IUPUI Professor and Chair of the Department of Electrical and Computer Engineering, IUPUI will receive \$1.2M for its role in the consortium, which is to develop several core courses and certificate programs for both undergraduate and graduate students. Proposed courses to be offered by IUPUI faculty include Fundamentals for Electric and Hybrid Vehicles, Modeling, Simulation, Optimization and Control of Hybrid Electric Vehicles, Advanced Batteries, and Fuel Cells, etc.

Other IUPUI faculty members serving on the Consortium are Dr. Andrew Hsu, Professor of Mechanical Engineering and Associate Dean for Research and Graduate

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

Programs and Director of the Richard G. Lugar Center for Renewable Energy; Dr. Jie Chen, Professor and Chair of Mechanical Engineering; Dr. Sohel Anwar, Associate Professor of Mechanical Engineering; and Mr. Kyle Cline, Business Manager in the Richard G. Lugar Center for Renewable Energy.

"This grant will provide IUPUI with resources needed to develop a full range of undergraduate and graduate courses for several key engineering and technology programs by partnering with other campuses in the state. The success of this project would position IUPUI in the forefront as one of leaders to educate and train a next generation of engineers and technical workforce in the 21st century green economy for Indiana, the U.S. and beyond," Dr. Chen said.

## UPDATES

### Two-day Meeting Lays Foundation for IU to Tackle Indiana Energy Issues

On August 6-7, 2009, over 200 Indiana University faculty, staff, administrators and some students came together in a two-day working conference to identify current initiatives, gaps, and future opportunities for addressing the state's most pressing energy challenges and capitalizing on its most promising assets. Day one, which took place on the IU Bloomington campus, was kicked off with an opening welcome from Indiana University (IU) President Michael McRobbie, stressing the importance of energy research to "solve what the Department of Energy calls the grand challenge of sustainable energy." It was an information filled day of panel discussions, with leaders from government, industry and academia identifying what were viewed as important and significant energy issues that need to be addressed in the state of Indiana and beyond.

Day two of the conference, held on the IUPUI campus, was a day of intense deliberations comprised of nine working groups, around some of the issues outlined in day one. IUPUI Chancellor Charles Bantz, in his opening address, encouraged the group to remember in their deliberations on energy that national security and economic development remain a paramount focus for our nation and should be for us as well. "This is an opportunity this university has to pursue...I am very pleased you are here today to look at what assets we have in this university and what we can bring together in order to focus them," says Chancellor Bantz.

Day two was framed around discussions on opportunities for IU, its strengths and weakness and its current resources in addressing the identified issues. The working groups were co-chaired by two faculty experts, one from each of the two host campuses, and organized by nine broad themes; energy resources, computing, environmental issues, advanced material processes and application, education and workforce development, sustainability, transportation, policy, economic and legal issues, and organizational barriers.



According to the IUPUI Vice Chancellor for Research, Kody Varahramyan, and the IU Bloomington Vice Provost for Research, Sarita Soni, the ultimate goal of the two-day conference is to generate a white paper for energy research that creates a roadmap for IU to significantly impact work done in this area, identify strategic opportunities for IU, identify current strengths and weaknesses in IU's ability to impact energy research and address major energy issues, and identify what is needed for IU to excel in its efforts. A key area of strength for energy research at IU is the Richard G. Lugar Center for Renewable Energy, which since its founding in 2007 has been addressing the societal needs for clean, affordable and renewable energy.

Questions and comments about the Energy Conference and the white paper currently under development can be directed to [ovcr@iupui.edu](mailto:ovcr@iupui.edu).

### **White House Updates Guidance Regarding Communications with Registered Lobbyists about Recovery Act Fund**

On Friday, July 24, 2009, the White House issued the final guidance for lobbying administration officials on ARRA-related competitive funding. The announcement reiterates the May 29, 2009 guidance, which was posted on the White House Ethics website. There were two policy changes announced in the May 29 blog. One change narrowed the timeframe for the oral communications ban on specific ARRA projects from the time a competitive application is submitted until the awards are made. The other applied the ban to all nonfederal employees. The prohibition on oral communications applies only to specific Recovery Act projects. Please see the OMB memo for details regarding these prohibitions.

[http://www.whitehouse.gov/omb/assets/memoranda\\_fy2009/m09-24.pdf](http://www.whitehouse.gov/omb/assets/memoranda_fy2009/m09-24.pdf)

## **RECENT EXTERNAL FUNDING AWARDS**

The Office of the Vice Chancellor for Research recognizes and congratulates all IUPUI faculty and researchers for recent awards received and helping to advance the IUPUI research enterprise. The following highlights those receiving \$500,000 or more in external grants.

### **Grants and Awards - June 2009**

<b>PI</b>	<b>Agency</b>	<b>Project Title</b>	<b>School</b>	<b>Department</b>	<b>Total</b>
SHEKHAR, ANANTHA	ELI LILLY AND COMPANY	Disease Modeling Program - Training Grant	Medicine	CLINICAL TRANSLAT SCI (CTSI)	\$3,105,000
BLUM, JANICE S.	NATIONAL INSTITUTE ALLERGY & INFECTIOUS DISEASES	Immunology and Infectious Diseases	Medicine	MICROBIOLOGY & IMMUNOLOGY	\$1,426,510
MEROUEH, OUSSAMA	NATIONAL INSTITUTE ALLERGY & INFECTIOUS DISEASES	Small-molecule Inhibition of the Interactions of the Urokinase Receptor: A Target in Tumor Invasion and Metastasis	Medicine	BIOCHEMISTRY/ MOLECULAR BIOLOGY	\$1,022,560

SHEKHAR, ANANTHA	ELI LILLY AND COMPANY	Disease Modeling Program - Faculty Career Award	Medicine	CLINICAL TRANSLAT SCI (CTSI)	\$900,000
CARROLL, AARON EDWARD	AGENCY FOR HEALTHCARE RESEARCH AND QUALITY	Computer Automated Developmental Surveillance and Screening (CADSS)	Medicine	PED-HEALTH SERVICES RESEARCH	\$899,183
MAC KINNON, JOYCE L	U.S. DEPARTMENT OF DEFENSE	Indiana-Ohio Center for Traumatic Amputation Rehabilitation Research: Phase III	HEALTH/ REHABILITATION SCIENCES	HEALTH/ REHABILITATION SCIENCES	\$824,000
RODRIGUEZ, HENRY	UNIVERSITY SOUTH FLORIDA	Type 1 Diabetes TrialNet at Indiana University Clinical Center	Medicine	PED-ENDOCRINOLOGY/ DIABETOLOGY	\$661,701
NGUYEN, KIM SA T	NATIONAL SCIENCE FOUNDATION	Urban Educators: Robert Noyce Scholarship for Mathematics and Science Teachers - Phase II Scholarship and Stipend	Education	Education	\$599,963

## OVCR INTERNAL GRANTS 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, 2009. For grant guidelines and application forms, go to <http://research.iupui.edu/funding/>.

## OVCR WORKSHOPS AND EVENTS

### Funding Undergraduates in Ongoing Research through the NSF REU Program

When: Tuesday, September 01, 2009 | 01:00 PM-03:00 PM

Where: University Library, Room 1116

Register: <http://crl.iupui.edu/Events/eventsRegistration.asp?id=1663>

OR

When: Friday, September 04, 2009 | 10:00 AM-11:59 AM

Where: University Library, Room 2115J

Register: <http://crl.iupui.edu/Events/eventsRegistration.asp?id=1664>

Do you want to learn how to engage undergraduate students in your research program in a meaningful way? Then attend this information and working session on

developing successful NSF REU proposals. Learn how to write a competitive NSF REU proposal, including grant proposals designed specifically to initiate and conduct projects to engage a number of undergraduate students in your ongoing research in meaningful ways AND grant supplement proposals to fund undergraduate researchers in NSF-funded projects.

The Office of the Vice Chancellor for Research invites faculty members interested in pursuing supplemental funding for undergraduate student research support to attend this session about how to develop a competitive proposal to NSF for the Research Experiences for Undergraduates (REU) program.

The REU program supports active research participation by undergraduate students in any of the areas of research funded by the NSF. REU projects involve students in meaningful ways in ongoing research programs or in research projects specifically designed for the REU program. This solicitation features two mechanisms for support of student research:

1. REU Sites are based on independent proposals to initiate and conduct projects that engage a number of students in research. REU Sites may be based in a single discipline or academic department, or on interdisciplinary or multi-department research opportunities with a coherent intellectual theme. Proposals with an international dimension are welcome. A partnership with the Department of Defense (DoD) supports REU Sites in DoD-relevant research areas.
2. REU Supplements may be requested for ongoing NSF-funded research projects or may be included as a component of proposals for new or renewal NSF grants or cooperative agreements.

**Deadlines:**

October 22, 2009

June 04, 2010

August 25, 2010

**Additional Contacts:**

The complete list of NSF REU contacts is available at [http://www.nsf.gov/crssprgm/reu/reu\\_contacts.jsp](http://www.nsf.gov/crssprgm/reu/reu_contacts.jsp)

**Introduction to OVCR Internal Grant Programs**

When: Thursday, September 10, 2009 | 01:00 PM-02:30 PM

Where: University Library Room 1116

This session will provide participants with an overview of the various Office of the Vice Chancellor for Research (OVCR) internal grant opportunities for IUPUI faculty and will include information on upcoming deadlines, how to apply, the review process, post award requirements and how best to use the internal funding to leverage extramural support.

Register: <http://crl.iupui.edu/Events/eventsRegistration.asp?id=1657>

**Finding Funding**

When: Tuesday, September 15, 2009 | 02:00 PM-03:30 PM

Where: UL 0106

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 few knowledge management systems that contain thousands of funding opportunities available by the university subscription.

Register: <http://crl.iupui.edu/Events/eventsRegistration.asp?id=1607>

### **Community of Science**

When: Thursday, September 24, 2009 | 10:00 AM-11:30 AM

Where: UL 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.

Register: <http://crl.iupui.edu/Events/eventsRegistration.asp?id=1610>

## **OTHER WORKSHOPS AND EVENTS**

### **IU Research Coordinator Education Program**

The IU Research Coordinator Education Program will be September 24-25, 2009 in the Riley Outpatient Center lower level conference rooms A and B. The final day to register is Friday, September 18. This program is for the education and training of research coordinators. The program is designed to introduce the research coordinator new to Indiana University to critically important concepts, requirements, and practical aspects of coordinating research studies across all types of clinical research at Indiana University. Besides core curriculum, breakout sessions are offered for both clinical and behavioral trials.

This program is mandated for all new coordinators within the School of Medicine with less than 2 years of experience coordinating studies on the IUPUI/Clarian campuses. While the program targets the new study coordinator, experienced coordinators and young investigators within the IU schools of medicine, dentistry, and nursing, Clarian Health, and the Roudebush VA and Wishard hospitals often attend and find the content useful and their skills strengthened.

For more information and to register, go to <http://www.nursing.iupui.edu/continuing> and click on "Programs and Conferences." For questions regarding program content, contact Marta Sears at 317.274.3974. Questions about registration can be directed to the Office of Lifelong Learning, IU School of Nursing, 317.274.4643.

## **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 below.



## NATIONAL ENDOWMENT FOR THE HUMANITIES

### Collaborative Research Grants

The focus is on original research undertaken by a team of two or more scholars or research coordinated by an individual scholar that, because of its scope or complexity, requires additional staff and resources beyond the individual's salary. Eligible projects include: research that significantly adds to knowledge and understanding in the humanities; conferences on topics of major importance in the humanities that will benefit ongoing research; archaeological projects that include the interpretation and communication of results (projects may encompass excavation, materials analysis, laboratory work, field reports, and preparation of interpretive monographs); and research that uses the knowledge, methods, and perspectives of the humanities to enhance understanding of science, technology, medicine, and the social sciences. *Application deadline is October 29.*



## NATIONAL INSTITUTES OF HEALTH

### Substance Use and Abuse among U.S. Military Personnel, Veterans and their Families

The focus is on enhancing and accelerating research on the epidemiology/etiology, identification, and prevention and treatment of alcohol, tobacco, and other drug use and abuse (including illicit and prescription drugs) and associated mental health problems among active-duty or recently separated (e.g., Iraq and Afghanistan) military troops and their families. *Application deadline is December 22, 2009.*

### Behavioral Science Track Award for Rapid Transition (B/START):\

The focus is on facilitating the entry of beginning investigators into the field of behavioral science research related to drug abuse. To be appropriate for a B/START award, research must be primarily focused on behavioral processes and research questions. *Standard application dates apply.* (<http://grants1.nih.gov/grants/funding/submissionschedule.htm>).



## NATIONAL SCIENCE FOUNDATION

### Undergraduate Research and Mentoring in the Biological Sciences (URM)

The focus is on increasing the number and diversity of individuals pursuing graduate studies in all areas of biological research supported by the NSF Directorate for Biological Sciences. Support will be provided to academic institutions to establish innovative programs to engage undergraduates in a year-round research and mentoring activity. Particular emphasis will be placed on broadening participation of members of groups historically underrepresented in science and engineering: African Americans, Alaska Natives, American Indians, Hispanic Americans, Native Pacific Islanders, and persons with disabilities. *Required preliminary proposal is due*

September 15, 2009.

### Energy for Sustainability

The focus is on fundamental research and education in energy production, conversion, and storage and is focused on energy sources that are environmentally friendly and renewable. *Application deadline is September 17, 2009.*



### **NASA**

### Research and Technology Development to Support Crew Health and Performance in Space Exploration Missions

The focus is on ground-based, bed-rest definition and flight definition proposals for NASA and the National Space Biomedical Research Institute (NSBRI) in support of the Human Research Program. Proposals are solicited by NSBRI in the following areas: Cardiovascular Alterations, Smart Medical Systems and Technology. Proposals are solicited by NASA in the areas of: Sensorimotor, Muscle and Bone, Cardiovascular and Muscular Endurance, Intervertebral Disc Damage, Advanced Food Technology. *Required pre-proposals are due September 3, 2009.*

## DID YOU KNOW?

### **Campus Facts**

Research awards for IUPUI for the 08-09 fiscal year were 5.5% less than the previous year with total awards of \$ 286.2 million. This accounted for 61% of the total awards to the Indiana University system. Dollars requested in proposals submitted from IUPUI during the 08-09 fiscal year were up 28% compared to the previous year. While many schools had a decrease in the amount of awards in FY 08-09 compared to FY 07-08, two schools (Education and SPEA) increased their awards by more than \$1M. Three other schools (Engineering and Technology, Health and Rehabilitation Sciences, Law) had increases greater than \$900,000 but less than \$1M.

## IDENTIFYING FUNDING OPPORTUNITIES

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

**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](mailto:emward@iupui.edu) or 317.278.8427.

**Special Handling:** The Special Handling list was created in order to communicate donor restrictions and/or preferences for managing solicitation requests from Indiana University. The list reflects special relationships that exist between donors and the university and includes corporations and foundations that the President's office wishes to review prior to submission in order to coordinate Indiana University's requests to these donors. The Special Handling List was compiled and is maintained by the Indiana University Foundation office of Corporate and Foundation Relations and is provided to OVPR for distribution. Questions regarding this list can be directed Bobbi Bosch at 317-278-5648 or [bsbosch@indiana.edu](mailto:bsbosch@indiana.edu).

IU Authentication is required to view the following attachments:

- [IU/IUF Corporation / Foundation Special Handling List](#)
- [Principal Gifts Review Template](#)

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