

CRL Highlights

August-September 2016

CRL is now accepting applications to the 2016/17 **UROP** and **MURI** programs



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It's that time again!

CRL accepts applications to the 2016/17 UROP and MURI programs

Do you relish investigating intriguing issues? Are you a college student seeking a faculty-mentored research experience? Apply now through Monday, September 19, 2016!

Applications are open for the IUPUI Undergraduate Research Opportunities Program (UROP) grant through the IUPUI Center for Research and Learning (CRL) website. Note that you will need to have identified a mentor and drafted a research proposal prior to application. For details go to: <https://iu.co1.qualtrics.com/SV/>

Preference will be given to students who have not received any CRL stipend in the past.

Alternatively, apply now—directly to the project mentors—to serve on an interdisciplinary research team through CRL's Multidisciplinary Undergraduate Research Institute (MURI)! The deadline is Monday, September 19, 2016, though some teams may fill up quickly. The 2016-2017 MURI projects are posted on the CRL website at: <http://crl.iupui.edu/programs/MURI/index.asp>. Once the mentors have decided on their teams, the student names will be forwarded to CRL, which then will ask the student for additional application information.

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Calling all undergraduates!

Present your research at the 22nd Indiana University Undergraduate Research Conference

Plan to showcase your undergraduate research at the 22nd annual Indiana University Undergraduate Research Conference (IUURC) on Friday, December 2, 2016, in the Ruth Lilly Learning Center of the Riley Outpatient Center at IUPUI. Students from every IU campus will present their fascinating and relevant research findings during poster sessions and short talks covering all academic fields. Monetary awards will be conferred for the most notable work. IUURC was established in 1994 and is dedicated to promoting undergraduate research, scholarship and creative activity, which is performed in partnership with faculty or other mentors as a vital component of an IU undergraduate education. This event is open to the public. The 2016 distinguished keynoter will be Fred Cate, J.D., Vice President for Research, Indiana University.

IUPUI students who opt to give an oral presentation or present a poster that has not been showcased at the IUPUI Research Day or the CRL Summer Poster Session will be given priority. Students may submit their abstracts until Monday, October 17, 2016, at 11:59 p.m. at:

[IUURC Event and Deadlines](#)

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Another great year

CRL wraps up yet another successful summer!

CRL completed its highly successful summer research program with the annual summer poster session on July 26 showcasing 99 posters by undergraduate and high-school students who engaged

in research under the mentorship of IUPUI faculty during the months of June and July. Students practiced their oral communication skills while presenting their work to faculty, staff, students and family members in attendance. For the first time, this event included a scavenger hunt for students in which they searched for clues among the presentations. The winners of this popular and educational game were presented with JagCards: J'Adore Hatcher, an aspiring chemistry major in the IU Simon Cancer Center Summer Research Program (IUSCC SRP) (\$50); Run Sui Lian, a biology major and UROP scholar (\$50); IUSCC SRP scholars Joy Morounfolu, a high-school student (\$25), and Taylor McLamb, a neurobiology-physiology double-major aspirant (\$25); UROP scholar Kelly Moors, a neuroscience-French double major (\$25); and Butler University biology major Omar Aasar, a participant in the Dental Summer Undergraduate Research Program at the IU School of Dentistry (\$25).

<http://crl.iupui.edu/events/index.asp>

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Something to think about

CRL undergraduate student conference travel funds

CRL now offers travel awards up to \$500 to undergraduate students who are presenting their research in the form of a poster or talk at a conference. Matching funds will need to be provided by the student's mentor, department or school. To apply for a CRL Undergraduate Student Travel Fellowship, download and complete the corresponding form:

http://crl.iupui.edu/awards/awards/index_stf.asp

Funds are limited, and priority will be given to prior or current CRL scholars.

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Show and tell

Present at national undergraduate research conferences

Apply to present your research poster in Washington, D.C., on Capitol Hill!

The highly competitive Council on Undergraduate Research (CUR)

Posters On The Hill event gives college students the opportunity to showcase their research to members of Congress, to meet with their elected representatives and to learn about advocacy for undergraduate research. IUPUI students interested in submitting an application need to contact CRL's interim executive director, Dr. Dominique Galli, at dgalli@iupui.edu. If your application is successful, CRL will cover your trip expenses to Washington, D.C., for this premier poster session next spring. Note: You must be enrolled as an IUPUI undergraduate student throughout spring semester 2017 in order to qualify. Applications open September 7 and close November 2, 2016.

To find out more about CUR's Posters On The Hill go to:
http://www.cur.org/conferences_and_events/

Submit your abstract for the Undergraduate Research Symposium in the Chemical and Biological Sciences!

The 19th annual Undergraduate Research Symposium in the Chemical and Biological Sciences will take place on Saturday, October 22, 2016, at the University of Maryland, Baltimore County (UMBC). As in prior years, the symposium invites mentor-approved submissions from undergraduates investigating any aspect of chemistry, biology or biochemistry. Research results will be disseminated in a daylong event that typically offers more than 200 student contributions and gathers over 400 beginning scientists, mentors and other guests.

For abstract submission guidelines go to:
<http://cnmssymposium.umbc.edu/presenters>
Abstract submission deadline: Midnight EDST, Wednesday, September 21, 2016

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Strength in numbers

Seeking CRL Ambassadors

CRL is still looking for additional CRL Ambassadors who also will sit on the CRL Student Advisory Board. We are particularly interested in students entering their sophomore or junior year.

For eligibility requirements please visit our website. Those selected receive an invitation to schedule a personal interview. For further information, please contact Dr. Galli at dgalli@iu.edu.

[Join today!](#)

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Recognizing excellence

Jenna Tyler – Winner of 2016 Chancellor’s Award

Honors College alumna Jenna R. Tyler garnered the 2016 IUPUI Chancellor’s Award for Outstanding Undergraduate Research. Pursuing the accelerated B.S.-M.S. program in criminal justice and public safety, she will finish in May 2017. Jenna has assisted Abdul-Akeem A. Sadiq, Ph.D., associate professor, IU School of Public and Environmental Affairs, in his research on disaster management since January 2015. Updating lectures, performing literature reviews, editing manuscripts and providing substantive assistance on an NSF proposal have afforded valuable opportunities for her to enjoy polishing her writing skills under his tutelage.

Proactively pursuing extensive internship opportunities—no less than four—has provided Jenna data for multiple published articles. Spring 2014 saw her working with the Hamilton County Emergency Management Agency, where she wrote and designed the inaugural annual report, wrote the strategic plan and tracked medical incidents during the Indianapolis Mini and Carmel marathons. As an Indiana State Fair Commission (ISFC) Emergency Operations Center intern she developed emergency action plans for events, edited OSHA plans, wrote the multi-agency bomb-threat tabletop exercise situation manual and after-action report and trained ISFC employees. In concert with public-safety officials, she deployed incident resources during the 2014 and 2015 fairs. “It was a great internship!” she exclaimed. In spring 2015 Jenna coordinated a community preparedness event for the Hamilton County Health Department’s Emergency Preparedness Division, and, for the Indiana State Fire Marshal’s office, developed training on conducting more effective rapid and preliminary damage assessments.

Volunteering with the Hamilton County Medical Reserve Corps, Jenna deployed to Scott County, helping with community-outreach efforts during the HIV outbreak. In her subsequent piece, “The unexpected public health emergency,” published in the American Society for Public Administration’s **PA Times**, she concluded, “... building a socially resilient community rests in the hands of community members—not response agencies—who will have to decide if they will let this incident define them or transform them.” This March, Dr. Sadiq and she co-authored an article, “Variations in public and private employees’ perceptions of organizational

preparedness for natural disasters,” in the international journal **Environmental Hazards**, noting, “in general, employees of public organizations reported a higher preparedness level than employees of private organizations.” Her article, “Sustainable hazard mitigation: Exploring the importance of green infrastructure in building disaster resilient communities,” in January’s peer-reviewed **Consilience: The Journal of Sustainable Development**, concluded, “the adoption of such measures is needed to address the dynamic nature of disasters in the twenty-first century,” and observed, “additional studies are needed to address other modes of sustainable hazard mitigation strategies in regions largely affected by land disasters.”

Jenna is currently employed as a part-time Indiana Department of Homeland Security training-program coordinator. Her duties include the identification of gaps and updating and developing courses. Aspiring to follow in her mentor’s footsteps conducting field research following natural disasters, she plans to pursue a doctorate in public administration/policy, with a dissertation focus on evacuation compliance among minority populations and/or interagency/intergovernmental coordination. She remarks, “I really want to do something engaged with local communities to stem future losses.”

http://crl.iupui.edu/awards/Awards/index_ca.asp

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Apply today!

Current research positions at IUPUI for undergraduate students

The Kelley School of Business, the School of Philanthropy and the School of Engineering and Technology each currently have an open research position for an undergraduate student. To find out more go to:

<http://crl.iupui.edu/programs/URP/index.asp>

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Looking back

CRL first-year review

It has been one year since the appointment of Dominique M. Galli, Ph.D., to the position of CRL interim executive director. During this past year all CRL programs were aligned, and their operation was

streamlined. Further, a new program, Fast Track, has been added to the center's portfolio. Most importantly, student learning outcomes now are being defined in terms of IUPUI's Principles of Undergraduate Learning and entail both formative and summative assessments.

The upcoming academic year will see the return of the Indiana University Undergraduate Research Conference (IUURC) to IUPUI, the launch of the new CRL Undergraduate Student Travel Fellowship and the establishment of a CRL student advisory board.

<http://news.iupui.edu/releases/2015/07/galli-research-vc.shtml>

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Let's share your great ideas!

Get published!

IUPUI undergraduate students are encouraged to submit articles treating their own research at <http://iujur.indiana.edu/submit/>. Submissions for Indiana University Journal of Undergraduate Research (IUJUR), Volume 3, are being accepted now until December 1, 2016, at 11:59 p.m.

Volume 2 of the IUJUR is out, published in June through IU ScholarWorks and featuring an article, "Effects of filament diameter tolerances in fused filament fabrication," co-authored by three IUPUI students. Aaron J. Isaacs took a leap of faith, leaving a successful, remunerative career to study engineering, specifically, additive manufacturing (AM) technology. Freshman double-major in mechanical engineering and German Abigail H. Curdes is well ahead of the curve in having her first paper published, reflecting this Honors College scholar's achievements and energy. Abigail belongs to both the Society of Women in Engineering and the Alpha Lambda Delta Honor society. Sophomore mechanical-engineering major Carolina Cardona is pursuing a minor in mathematics. All three students are mentees of Andrés Tovar, Ph.D., assistant professor of mechanical engineering in the Purdue School of Engineering and Technology at IUPUI. This article is accessible at:

<https://scholarworks.iu.edu/journals/index.php/iujur/issue/view/1326>.

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Congratulations, Vicki!



Farewell to Vicki Bonds

Vicki L. Bonds concluded her tenure in the Center for Research and Learning (CRL), a division of the IUPUI Office of the Vice Chancellor for Research, at end of the 2016 CRL summer research programs July 29. She has over 17 years of experience in student affairs at the secondary and college levels. During her 12 years in CRL, she directed multiple undergraduate-research programs promoting student engagement in high-impact practices, primarily geared toward enhancing diversity in higher education and the professions. Herself an alumna of the Groups Scholars Program at IU Bloomington, she served as associate director of IUPUI's Ronald E. McNair Postbaccalaureate Achievement Program (U.S. DOE TRiO) through two complete grant cycles. She also managed the joint IUPUI-Ivy Tech Community College Bridges to the Baccalaureate in Central Indiana program (NIH), the institutionally funded IUPUI Diversity Scholars Research Program (DSRP), the IUPUI Post-Baccalaureate Research Education Program (IPREP Fellows)(NIH) and the IU Melvin and Bren Simon Cancer Center Summer Research Program (IUSCC SRP), which she continues directing in her new capacity. In addition, she briefly shepherded the IUPUI Undergraduate Research Opportunities Program (UROP) Summer Fellows and the Simon Cancer Center's Future Scientist Program, as well as co-directed the Indiana Clinical and Translational Sciences Institute (CTSI) one summer with CRL's founding executive director, Kathryn J. Wilson, Ph.D.

Mrs. Bonds has been named the new director of health professions and pre-doctoral programs in the IU School of Medicine (IUSM), effective July 1, 2016, in which role she oversees the school's Health Professions Program and the Master of Science in Medical Science (MSMS) program. The Health Professions Program offers undergraduate credentials in 10 areas, e.g., medical imaging technology, paramedic science and radiation therapy. The two-year MSMS program is geared toward enhancing the preparation and self-efficacy of students from educationally and/or economically disadvantaged backgrounds to be successful in a medical curriculum, an area in which Mrs. Bonds has demonstrated leadership. 2007 IUPUI McNair alumna Marquicia R. Pierce, Ph.D. (molecular physiology and biophysics, Vanderbilt University Medical Center, 2014), remarked, "Vicki is a great source of encouragement and support. I truly appreciated her mentorship and efforts at CRL." DSRP alumnus and current IUSM medical neuroscience doctoral student Darryl S. Watkins commented, "I am

convinced meeting Mrs. Bonds was pivotal in starting the journey of allowing my full potential to manifest.”

Holding two master’s degrees from IU, in higher-education student affairs and in school counseling and counselor education, and having completed her school-counseling practicum and internship in the Metropolitan School District of Lawrence Township, Vicki Bonds has completed the coursework for a Ph.D. in urban education studies through the IU School of Education at IUPUI. Her research interests include underrepresented college students’ experiences and learning, specifically, retention initiatives for increasing their post-baccalaureate achievement, and leadership development. As DSRP scholar and community-health premedical senior Michelle Ramirez stated, “It is because of her guidance and dedication to students that I can say I have developed a solid sense of self and direction for my future studies and career aspirations.”

<http://msms.medicine.iu.edu/welcome/>

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Things change. And friends leave.

IPREP Fellows program transitions

With the departure of Vicki Bonds from CRL, the IUPUI Post-Baccalaureate Research Education Program (IPREP) now will be under the aegis of the IUPUI Office of the Vice Chancellor for Research. Associate Vice Chancellor for Research David B. Burr is the principal investigator, and experienced research mentor Ann Kimble-Hill, Ph.D., visiting assistant research professor, IU School of Medicine, will serve as interim program coordinator for the 2016-2017 cohort.

<http://iprep.iupui.edu/>

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