



# Research and Economic Development at UC Riverside

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<http://research.ucr.edu>



# Overview

- Making an impact
  - Do great research
  - Let others know about it
  - Collaboration is important and valued
- Involve Undergraduates in Research
- Obtaining Resources for Research
  - Sponsored Project Administration
  - Compliance (IRB & IACUC)
- Technology Commercialization
- Upcoming Talks



# Research and Education

- ▶ Publicize your publications
  - Publications online are cited twice as often
  - (e)mail papers to people who you want to read them
- ▶ Collaborate with others: Ignore advice to focus solely on single authored papers
- ▶ Survey of my first year seminar
  - How many hours a week does a Professor teach?
  - What do Professors do when they aren't teaching?
  - How much tuition does a Ph.D. student in computer science pay a year?
  - Moral: Tell freshman about research and grad school.



# Finding External Funds

- <http://pivot.cos.com>
  - Sign up from UCR on campus computers (IP address)
  - Account can then be used anywhere
  - Search
  - Email alerts
  - Profile



# Searching for Grant Opportunities

<input type="checkbox"/>	Sort by	Relevance ▼	Opp title ▼	Sponsor ▼	Deadline ▼	Amount ▼
<input type="checkbox"/>		1.	<b>Preservation and Access Education and Training Grants</b> National Foundation for the Arts and the Humanities National Endowment for the Humanities (NEH) Division of Preservation and Access		Jun 28, 2013	\$500,000
<input type="checkbox"/>		2.	<b>Preservation and Access Research and Development Grants</b> National Foundation for the Arts and the Humanities National Endowment for the Humanities (NEH) Division of Preservation and Access		May 16, 2013	\$400,000
<input type="checkbox"/>		3.	<b>National Geological and Geophysical Data Preservation Program (NGGDPP)</b> United States Department of the Interior (DOI) U.S. Geological Survey (USGS)		May 21, 2013	see note
<input type="checkbox"/>		4.	<b>ACLS Digital Innovation Fellowships</b> American Council of Learned Societies (ACLS)		Oct 02, 2012	\$85,000
<input type="checkbox"/>		5.	<b>Heritage Grants</b> Kansas Humanities Council (KHC)		Sep 05, 2012	\$3,500
<input type="checkbox"/>		6.	<b>Data Infrastructure Building Blocks (DIBBs)</b> National Science Foundation (NSF) Office of Cyberinfrastructure (OCI)		Aug 30, 2012	\$8,000,000
<input type="checkbox"/>		7.	<b>National Leadership Grants</b> Institute of Museum and Library Services (IMLS)		Feb 01, 2013	\$1,000,000
<input type="checkbox"/>		8.	<b>Cultural and Environmental Grants for U.S. Nonprofits Working in Russia and East and Central Europe</b> Trust for Mutual Understanding (TMU)		Nov 01, 2012	see record

“Data Preservation”











# Recommendations based on Profile

## Funding matches

426 Funding opportunity matches for:

David Lo  
 Division of Biomedical Sciences, University of California, Riverside

Profile country filters:  United States Unrestricted opps included

Share	Ordered by: match relevance	1-10 of 426 results
<input type="checkbox"/>		<b>Next deadline</b>
<input type="checkbox"/>	 Division of Allergy, Immunology, and Transplantation (DAIT) - SBIR/STTR	Sponsor: Dec 05, 2012
<input type="checkbox"/>	 Gates Vaccine Innovation Award	Sponsor: Aug 31, 2012
<input type="checkbox"/>	 Immunization and Vaccines for Children Program	Sponsor: Aug 20, 2012
<input type="checkbox"/>	 Vaccine Preventable Diseases: Technological Innovation to Enhance Vaccine and Immunization Program Effectiveness - SOL1001093	Sponsor: Continuous
<input type="checkbox"/>	 Additional Support for NIH-funded F32 Postdoctoral Fellows Awards Program	Sponsor: Feb 03, 2013
<input type="checkbox"/>	 Immunization Information Systems Sentinel Site Project	Sponsor: Aug 21, 2012
<input type="checkbox"/>	 2012 Advancing Research in Transplantation Science (ARTS) Awards	Sponsor: Apr 30, 2013
<input type="checkbox"/>	 Research to Advance Vaccine Safety (R21)	Sponsor: Oct 16, 2012
<input type="checkbox"/>	 Research Grants	Sponsor: Continuous
<input type="checkbox"/>	 Research to Advance Vaccine Safety (R01)	Sponsor: Oct 05, 2012

1 2 3 4 Next Last





# Search for Faculty Collaborators

## Faculty matches

14 Faculty matches within my institution for opp:

Functional Materials

Opportunity

Share Ordered by match relevance 1-10 of 14 results ▶

<input type="checkbox"/>			
<input type="checkbox"/>	<a href="#">Myung, Nosang Vincent</a>	Associate Professor, Assistant Professor	Chemical & Environmental Engineering, University of California, Riverside
<input type="checkbox"/>	<a href="#">Yin, Yadong</a>	Assistant Professor	Materials Science and Engineering Program, University of California, Riverside
<input type="checkbox"/>	<a href="#">Kawakami, Roland</a>	Assistant Professor	Department of Physics and Astronomy, University of California, Riverside
<input type="checkbox"/>	<a href="#">Abbaschian, Reza</a>	Dean/Distinguished Professor	Department of Mechanical Engineering, University of California, Riverside
<input type="checkbox"/>	<a href="#">Lyubomirsky, Ilya</a>	Assistant Professor	Electrical Engineering, University of California, Riverside
<input type="checkbox"/>	<a href="#">Liu, Jianlin</a>	Associate Professor	Materials Science and Engineering Program, University of California, Riverside
<input type="checkbox"/>	<a href="#">Haberer, Elaine</a>	Assistant Professor	Electrical Engineering, University of California, Riverside
<input type="checkbox"/>	<a href="#">Garay, Javier E.</a>	Assistant Professor	Department of Mechanical Engineering, University of California, Riverside
<input type="checkbox"/>	<a href="#">Haddon, Robert</a>	Distinguished Professor	Chemical & Environmental Engineering, University of California, Riverside
<input type="checkbox"/>	<a href="#">Ozkan, Cengiz S.</a>	Associate Professor, Assistant Professor	Department of Mechanical Engineering, University of California, Riverside

1 2 Last ▶



# Make Your Ideas Stand Out



- Proposal Summary is extremely important
- Reviewer forms an initial impression that is seldom changed
- Submit at least one day early → First in order.
- Address all issues in solicitation, research, evaluation, education, assessment, outreach





## Increase acceptance rate by visiting funding agency

- › Learn more about what types of projects agency is looking for (e.g., balance between theory and observation)
- › Explain to agency your ideas and accomplishments
- › Find additional solicitations or agencies for support





## Sponsored Programs

<http://or.ucr.edu/SPA.aspx>



**Charles Greer**  
**Assistant Vice Chancellor**  
**Phone: 951.827.5535**  
**E-mail: [charles.greer@ucr.edu](mailto:charles.greer@ucr.edu)**

- Reviews and certifies proposals prior to submission;
- Reviews and submits proposals to extramural sponsors;
- Negotiates and accepts awards on behalf of The Regents;
- Processes award accounts;
- Provides post-award non-financial administration;
- Prepares and administers sub-agreements;
- Provides training to the campus community.



## Research Integrity

**HUMAN SUBJECTS:** All research that uses human subjects, whether or not it is funded, must be reviewed by the UCR Institutional Review Board (IRB). Research can only begin following approval by the committee and assignment of a protocol number.

**ANIMALS:** All research using animals, whether or not it is funded, must be reviewed by the UCR Institutional Animal Care and Use Committee (IACUC). Research can only begin following approval by the committee and assignment of a protocol number.

**BIOSAFETY:** All research that uses recombinant DNA, infectious agents, select agents, biological toxins, or other biohazardous agents, whether or not it is funded, must be reviewed by the UCR Institutional Biosafety Committee (IBC). Research can only begin following approval by the committee and assignment of a protocol number.

# Office of the Campus Veterinarian

<http://or.ucr.edu/ocv.aspx>



**Akiko Sato, V.M.D., Diplomat  
ACLAM  
Campus Veterinarian  
Phone: 951.827.5845  
E-mail: [akiko.sato@ucr.edu](mailto:akiko.sato@ucr.edu)**

- Oversees all animal facilities at UCR
- Ensures that UCR laboratory animal care and use programs comply with federal, state, and local guidelines for laboratory animal care



# Technology Commercialization

<http://research.ucr.edu/OTC.aspx>

- Manages UCR's intellectual property, license agreements, option agreements, equity agreements, material transfer agreements, and confidentiality agreements with private industry;
- Oversees the disclosure of inventions developed by UCR faculty, develops the licensing strategy for UCR intellectual property, and encourages further technical innovations;
- Provides information and counseling on all aspects of intellectual property, licensing, consulting relationships and other interactions with industrial collaborators;
- Coordinates with other agencies to promote regional economic development based on UCR innovations.





# Technology Commercialization

## Invention Disclosure & Patenting:

- First paper on topic much more important than tenth
- Keep up-to-date lab notebooks
- Corporate Contracts and Grants
  - Don't sign/negotiate contracts yourself including Non Disclosure Agreements
- Licensing
  - Existing Company
  - Start a company



# Scientific Misconduct

- › *A PI from an Illinois institution plagiarized text and citations from multiple source documents into four NSF proposals. Our office initiated an inquiry based on an allegation that a PI plagiarized into three proposals.*
- › *We concluded that the PI committed research misconduct when he plagiarized text in four NSF proposals. NSF agreed with our recommended finding, debarred the subject for one year, required certifications and assurances for 3 years, barred him from peer review for 3 yrs, and required him to complete a course in research ethics.*



# Entomology: Glassy-winged sharpshooter





# Tango







# Center for Environmental Research & Technology





# Nano Engineered Applications

