Research and Economic Development at UC Riverside

Michael Pazzani
Vice Chancellor for Research and Economic Development

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http://or.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
  - Office of Research and Sponsored Projects
  - 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

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

“Data Preservation”
### Recommendations based on Profile

#### Funding matches

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

Profile country filters:  
- United States  
- Unrestricted opps included

<table>
<thead>
<tr>
<th>Funding Opportunity</th>
<th>Next deadline</th>
<th>Sponsor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Division of Allergy, Immunology, and Transplantation (DAIT) - SBIR/STTR</td>
<td>Dec 06, 2012</td>
<td></td>
</tr>
<tr>
<td>Gates Vaccine Innovation Award</td>
<td>Aug 31, 2012</td>
<td></td>
</tr>
<tr>
<td>Immunization and Vaccines for Children Program</td>
<td>Aug 26, 2012</td>
<td></td>
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<tr>
<td>Vaccine Preventable Diseases: Technological Innovation to Enhance Vaccine and Immunization Program Effectiveness - S01001093</td>
<td>Continuous</td>
<td></td>
</tr>
<tr>
<td>Additional Support for NIH-funded F32 Postdoctoral Fellows Awards Program</td>
<td>Feb 05, 2013</td>
<td></td>
</tr>
<tr>
<td>Immunization Information Systems Sentinel Site Project</td>
<td>Aug 21, 2012</td>
<td></td>
</tr>
<tr>
<td>2012 Advancing Research in Transplantation Science (ARTS) Awards</td>
<td>Apr 30, 2013</td>
<td></td>
</tr>
<tr>
<td>Research to Advance Vaccine Safety (R21)</td>
<td>Oct 16, 2012</td>
<td></td>
</tr>
<tr>
<td>Research Grants</td>
<td>Continuous</td>
<td></td>
</tr>
<tr>
<td>Research to Advance Vaccine Safety (R01)</td>
<td>Oct 05, 2012</td>
<td></td>
</tr>
</tbody>
</table>
### Faculty matches

14 Faculty matches within my institution for opp:

#### Functional Materials

<table>
<thead>
<tr>
<th>Share</th>
<th>Opportunity</th>
<th>Position</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Myung, Nosang Vincent</td>
<td>Associate Professor, Assistant Professor</td>
<td>Chemical &amp; Environmental Engineering, University of California, Riverside</td>
</tr>
<tr>
<td></td>
<td>Yin, Yadong</td>
<td>Assistant Professor</td>
<td>Materials Science and Engineering Program, University of California, Riverside</td>
</tr>
<tr>
<td></td>
<td>Kawakami, Roland</td>
<td>Assistant Professor</td>
<td>Department of Physics and Astronomy, University of California, Riverside</td>
</tr>
<tr>
<td></td>
<td>Abbaschian, Reza</td>
<td>Dean/Distinguished Professor</td>
<td>Department of Mechanical Engineering, University of California, Riverside</td>
</tr>
<tr>
<td></td>
<td>Lyubomirsky, Ilya</td>
<td>Assistant Professor</td>
<td>Electrical Engineering, University of California, Riverside</td>
</tr>
<tr>
<td></td>
<td>Liu, Jianlin</td>
<td>Associate Professor</td>
<td>Materials Science and Engineering Program, University of California, Riverside</td>
</tr>
<tr>
<td></td>
<td>Haberl, Elaine</td>
<td>Assistant Professor</td>
<td>Electrical Engineering, University of California, Riverside</td>
</tr>
<tr>
<td></td>
<td>Garay, Javier E.</td>
<td>Assistant Professor</td>
<td>Department of Mechanical Engineering, University of California, Riverside</td>
</tr>
<tr>
<td></td>
<td>Haddon, Robert</td>
<td>Distinguished Professor</td>
<td>Chemical &amp; Environmental Engineering, University of California, Riverside</td>
</tr>
<tr>
<td></td>
<td>Ozkan, Cengiz S.</td>
<td>Associate Professor, Assistant Professor</td>
<td>Department of Mechanical Engineering, University of California, Riverside</td>
</tr>
</tbody>
</table>
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

- 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.
Akiko Sato, V.M.D., Diplomate
ACLAM
Campus Veterinarian
Phone: 951.827.5845
E-mail: akiko.sato@ucr.edu
Technology Commercialization
http://or.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.

Craig Sheward
Assistant Vice Chancellor
Technology Commercialization
Phone: 951.827.4772
E-mail: csheward@ucr.edu
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
Upcoming Talks on Proposal Development

› Grant Writing Tips, Traps, and Strategies, with Examples from Research Infrastructure Proposals
  Randall Black: Mon. Sept 24, 10am: Kohler Conference Room, Chemical Sciences 231

› Developing Successful Proposals: Challenges and Strategies for Success
  Michael Mueller: Fri, Sept 28, 10am Genomics Building Auditorium 1102A