Research and Economic Development at UC Riverside

Michael Pazzani
Vice Chancellor for Research and Economic Development

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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 Workshops & Lunches
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 with UCR email address
  - Search
  - Email alerts
  - Profile
## Searching for Grant Opportunities

<table>
<thead>
<tr>
<th>#</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</td>
<td>Jun 28, 2013</td>
<td>$500,000</td>
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<td></td>
<td></td>
<td>National Endowment for the Humanities (NEH)</td>
<td></td>
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<td>Division of Preservation and Access</td>
<td></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</td>
<td>May 16, 2013</td>
<td>$400,000</td>
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<tr>
<td></td>
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<td>National Endowment for the Humanities (NEH)</td>
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<td>Division of Preservation and Access</td>
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<tr>
<td>3</td>
<td>National Geological and Geophysical Data Preservation Program (NGGDPP)</td>
<td>United States Department of the Interior (DOI)</td>
<td>May 21, 2013</td>
<td>see note</td>
</tr>
<tr>
<td></td>
<td></td>
<td>U.S. Geological Survey (USGS)</td>
<td></td>
<td></td>
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<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>
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<tr>
<td>5</td>
<td>Heritage Grants</td>
<td>Kansas Humanities Council (KHC)</td>
<td>Sep 05, 2012</td>
<td>$3,500</td>
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<tr>
<td>6</td>
<td>Data Infrastructure Building Blocks (DIBBs)</td>
<td>National Science Foundation (NSF)</td>
<td>Aug 30, 2012</td>
<td>$8,000,000</td>
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<tr>
<td></td>
<td></td>
<td>Office of Cyberinfrastructure (OCI)</td>
<td></td>
<td></td>
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<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>
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<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>
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</tbody>
</table>

“Data Preservation”
Recommendations based on Profile

Funding matches

<table>
<thead>
<tr>
<th>Share</th>
<th>Ordered by: match relevance</th>
<th>1-10 of 426 results</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

- **Division of Allergy, Immunology, and Transplantation (DAIT) - SEHR/STTR**
  - Sponsor: Dec 06, 2012
- **Gates Vaccine Innovation Award**
  - Sponsor: Aug 31, 2012
- **Immunization and Vaccines for Children Program**
  - Sponsor: Aug 20, 2012
- **Vaccine Preventable Diseases: Technological Innovation to Enhance Vaccine and Immunization Program Effectiveness – SOL1001093**
  - Sponsor: Continuous
- **Additional Support for NIH-funded T32 Postdoctoral Fellows Awards Program**
  - Sponsor: Feb 03, 2013
- **Immunization Information Systems Sentinel Site Project**
  - Sponsor: Aug 21, 2012
- **2012 Advancing Research in Transplantation Science (ARTS) Awards**
  - Sponsor: Apr 30, 2013
- **Research to Advance Vaccine Safety (R21)**
  - Sponsor: Oct 16, 2012
- **Research Grants**
  - Sponsor: Continuous
- **Research to Advance Vaccine Safety (R01)**
  - Sponsor: Oct 05, 2012
Search for Faculty Collaborators

<table>
<thead>
<tr>
<th>Opportunity</th>
<th>Faculty matches within my institution for opp:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Functional Materials</td>
<td>14 Faculty matches within my institution for opp:</td>
</tr>
</tbody>
</table>

### Faculty matches

<table>
<thead>
<tr>
<th>Share</th>
<th>Opportunity</th>
<th>Faculty Name</th>
<th>Position</th>
<th>Department</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Myung, Nosang Vincent</td>
<td>Associate Professor, Assistant Professor</td>
<td>Chemical &amp; Environmental Engineering, University of California, Riverside</td>
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<tr>
<td></td>
<td></td>
<td>Yin, Yadong</td>
<td>Assistant Professor</td>
<td>Materials Science and Engineering Program, University of California, Riverside</td>
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<tr>
<td></td>
<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></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></td>
<td>Lyubomirsky, Ilya</td>
<td>Assistant Professor</td>
<td>Electrical Engineering, University of California, Riverside</td>
</tr>
<tr>
<td></td>
<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></td>
<td>Habener, Elaine</td>
<td>Assistant Professor</td>
<td>Electrical Engineering, University of California, Riverside</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Garay, Javier E.</td>
<td>Assistant Professor</td>
<td>Department of Mechanical Engineering, University of California, Riverside</td>
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<td></td>
<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></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
Win a free trip to Washington DC!!!
Attend at least 2
http://research.ucr.edu/about/calendar.aspx

<table>
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<tr>
<th>Date</th>
<th>Time</th>
<th>Location</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>10/07/2016</td>
<td>10:00 – 11:30 AM</td>
<td>UOB 210</td>
<td>Overview of PAMIS Portal Applications. The PAMIS (Proposal and Award Management Information System) Portal provides access to essential campus enterprise systems supporting sponsored programs. Including the electronic Campus Approval Form (eCAF), Cayuse 424, Online Preaward Request, eAward, PI Web Reporting, Annual Payroll Certification, Expiring Funds Notification, and Online Material Transfer Request.</td>
</tr>
<tr>
<td>10/14/2016</td>
<td>10:00 – 11:30 AM</td>
<td>UOB 210</td>
<td>Show me the Money – Finding Funding Opportunities and reviewing the Request for Proposal (RFP)/solicitation guidelines. Including a brief demo of COS Pivot.</td>
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<tr>
<td>10/28/2016</td>
<td>10:00 – 11:30 AM</td>
<td>UOB 210</td>
<td>Cayuse 424 Tutorial (Step-by-Step demo).</td>
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<tr>
<td>11/04/2016</td>
<td>10:00 – 11:30 AM</td>
<td>UOB 210</td>
<td>Submitting Proposals to the National Science Foundation (NSF). Including a brief demo of FastLane and Research.gov.</td>
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<tr>
<td>11/18/2016</td>
<td>10:00 – 11:30 AM</td>
<td>UOB 210</td>
<td>Submitting Proposals to with National Institutes of Health (NIH). Including a brief demo of eRA Commons.</td>
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<tr>
<td>12/02/2016</td>
<td>10:00 – 11:30 AM</td>
<td>UOB 210</td>
<td>Cayuse 424 Tutorial (Step-by-Step demo).</td>
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</tbody>
</table>
Sponsored Programs
http://research.ucr.edu/SPA.aspx

• 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.

Charles Greer
Assistant Vice Chancellor
Phone: 951.827.5535
E-mail: charles.greer@ucr.edu
HUMAN SUBJECTS: All research that uses human subjects, whether or not it is funded, must be reviewed by the UCR Institutional Review Board (IRB).

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://research.ucr.edu/ocv.aspx

- 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

Akiko Sato, V.M.D., Diplomate
ACLAM
Campus Veterinarian
Phone: 951.827.5845
E-mail: akiko.sato@ucr.edu
Technology Partnerships
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.
- Corporate Relationships and Contracts

Rosibel Ochoa
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

Working with Companies
- Corporate Sponsored Research
Research Development
http://research.ucr.edu/OTC.aspx

- Assistance with writing proposals
  - Focusing on what is important
  - Proofreading
  - Best practices for outreach/broader impacts/assessment
  - Not a replacement for scientific/peer review
- Templates For proposal sections
  - Postdoc mentoring plans
  - Outreach
  - Facilities
  - NSF CAREER awards
- Focus on
  - New Faculty/First Awards
  - Center Grants
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.