Research and Economic Development at UC Riverside

Who are we and how can we be of service to you?

http://research.ucr.edu

September 10, 2015
How does Research and Economic Development support research?

WE…..
work with faculty, department chairs and deans to enhance and grow the university’s research programs.

assist the faculty with the submission of proposals and the management of awards from sponsoring agencies.

manage and assist in compliance with all mandated federal, state and UC research requirements.

assist researchers in commercializing inventions resulting from their research.

improve and oversee the campus research infrastructure.
Research Support Units

- Research Development
- Sponsored Programs
- Research Integrity
- Campus Veterinarian
- Corporate & Strategic Partnerships
- Technology Commercialization
Research Development Resources

• Proposal review
• Writing de novo sections on organizational structure, abstract, sections as needed
• PIVOT *Search for funding opportunities and expert collaborators*
• “Boilerplate” text on facilities, programs
Proposal Review

- Research Development reviews proposals for
- Responsiveness to agency
- Organization
- Clarity
- Brevity
**Editing Example**

**Impact:** Case studies of individual schools will **identify and characterize key factors**, including those in interacting combinations, likely to be influencing school and student performance. By **integrating Structural Equation Modeling (SEM)** statistical procedures with geocoded data that links school and community factors, we can assess both the relative importance and the statistical reliability of factors influencing student achievement. As examples, we will learn the relative importance of: **continuity of leadership in civic and school administrative roles; stability of staffing, teachers, social worker, and police advanced training; trust in education and civic leadership; quality of class and school-level instruction and student/teacher interactions; degree of housing, school, and classroom ethnic/socio-economic integration; class and school density of economically disadvantaged, English learners and educationally handicapped students; access to medical facilities, health care, parks, libraries, higher education and other cultural activities within neighborhoods; church membership, community organizations, political parties and friendship/family networks; crime rates, drug use, policing, neighborhood watch organizations, street lighting and other safety enhancements; school and family access to technology; and other factors framing educational settings that impact learning**, including emergence of education/civic leadership coalition stimulated by this research study. **As important as the immediate impact of its findings, and innovation beyond current research, the project offers to generate opportunities to investigate contextual settings for educational reforms**. The long-range impact would be informed investments in social, physical and human capital, not “one size fits all,” but suited to local micro contexts. By adjusting malleable factors, more schools can becomes outliers: extraordinary performers that defy the odds, achieve beyond the predictions, and despite daunting statistics and demographics, provide youth a quality education. We look forward to the opportunity to submit a full proposal.

**References**
Improving Undergraduate STEM Education (IUSE-EHR)

Opp ID: 147909 | Program or Curriculum Development or Provision | Last edited on 07 Oct 2014


Sponsor: National Science Foundation (NSF)
- Sponsor ID: NSF 14-566 (Re-issue of PD 14-7513)

Amount: Upper $3,000,000 USD
- Anticipated Type of Award: Standard Grant or Continuing Grant
  - Estimated Number of Awards: 185. Per type:
    - Engaged Student Learning: Exploration - approximately 100 awards
    - Engaged Student Learning: Design and... more »

Requirements:
- Academic Institution
- Commercial
- Government
- New Faculty/New Investigator
- Nonprofit
- Ph.D./M.D./Other Professional
- Small Business

Funding Contact Person:
- Myles G. Boylan, Lead Program Director
- DUE/DGE
- NSF
- 4201 Wilson Boulevard, Room 835
- Arlington, VA 22230

See alert recipients (0)
See more opps like this
Send feedback

Profile Matches:
- 221 from inside your institution
- 500+ from outside institutions
# Improving Undergraduate STEM Education (IUSE-EHR)

**Opp ID:** 147909 | Program or Curriculum Development or Provision | Last edited on 07 Oct 2014

## Faculty Matches

<table>
<thead>
<tr>
<th>Role</th>
<th>Number</th>
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<tbody>
<tr>
<td>Professor</td>
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<tr>
<td>Assistant Professor</td>
<td>33</td>
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<tr>
<td>Graduate Student</td>
<td>20</td>
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<td>Outside Institutions</td>
<td>208,643</td>
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### 221 Results

- **Metz, Kathleen E.**
  - Associate Professor
  - Education
  - Graduate School of Education
  - University of California, Riverside

- **Ing, Marsha M.**
  - Assistant Professor
  - Graduate School of Education
  - University of California, Riverside

- **Levin, John S.**
  - Professor
  - Graduate School of Education
  - University of California, Riverside

- **Dar, Luciana N.**
  - Assistant Professor
  - Graduate School of Education
  - University of California, Riverside

- **Ream, Robert K.**
  - Associate Professor
  - Graduate School of Education
  - University of California, Riverside
### Funding Matches

#### Marsha Ing
Graduate School of Education, University of California, Riverside

<table>
<thead>
<tr>
<th>#</th>
<th>Title</th>
<th>Description</th>
<th>Deadline</th>
<th>Amount</th>
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<tr>
<td>1</td>
<td><strong>LIMITED</strong> National Science Foundation Research Traineeship (NRT) Program</td>
<td>National Science Foundation (NSF)</td>
<td>20 May 2018</td>
<td>$3,000,000 USD</td>
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<td>2</td>
<td><strong>LIMITED</strong> Alliances for Graduate Education and the Professorate (AGEP)</td>
<td>National Science Foundation (NSF), Directorate for Education and Human Resources (EHR), Division of Human Resource Development (HRD)</td>
<td>05 Feb 2019</td>
<td>$1,750,000 USD</td>
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<td>3</td>
<td>Dear Colleague Letter - Stimulating Research on Effective Strategies in Undergraduate STEM Education at Two-Year Hispanic Serving Institutions</td>
<td>National Science Foundation (NSF)</td>
<td>31 May 2015</td>
<td>$300,000 USD</td>
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<td>4</td>
<td><strong>LIMITED</strong> Louisa Stokes Alliances for Minority Participation (L.SAMP)</td>
<td>National Science Foundation (NSF), Directorate for Education and Human Resources (EHR), Division of Human Resource Development (HRD)</td>
<td>03 Oct 2015</td>
<td>$5,000,000 USD</td>
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<td>5</td>
<td><strong>NIA</strong> MSTEM: Advancing Diversity in Aging Research (ADAR) Through Undergraduate Education (225)</td>
<td>United States Department of Health and Human Services (HHS), National Institutes of Health (NIH), National Institute on Aging (NIA)</td>
<td>07 Jan 2018</td>
<td>$1,750,000 USD</td>
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<td>6</td>
<td>William J. and Marjane E. Adams, Jr., Scholarship</td>
<td>American Society of Mechanical Engineers (ASME), ASME Scholarships</td>
<td>20 Mar 2015</td>
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<td><strong>Fred Morrell Design Award</strong></td>
<td>American Society for Engineering Education (ASEE), Awards Program, National Awards</td>
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<td>13 Jan 2015</td>
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**Country:** United States

**Submission type:**
- Limited Submission: 10
- Other internal coordinators: 1

**Top funding types:**
- Prize or Award: 25
- Training or Scholarship: 24
- Research: 23
- Program or Curriculum: 23
- Meeting or Conference: 8

**Top sponsor types:**
- Professional Society: 42
- Federal, U.S.: 35
- Academic Institution: 7
- Other Nonprofit: 2
- Commercial: 1

**Top requirements:**
- PhD or MD or Other Professional Degree: 42
- New Faculty or New Investigators: 40
- Academic Institution: 33
- Nonprofit: 20
- Graduate Student: 21

**Top keywords:**
- Engineering Education: 22
- Science Education: 17
- Engineering: 17
- Graduate Education: 14
- Mathematics: 14
Research Development Information

About

Research Related Links

- **PIVOT Search Engine** - Pivot answers the growing demands on research developers to quickly discover the right funding opportunities and effectively collaborate with their colleagues.
- **Faculty Guide to Research Funding** - Strategies to help new faculty get off to a successful start in identifying and securing funding for grants to support their research.

Proposal Resources

- **Proposal Development** - Links and material to assist in proposal development.

NSF
Limited Submissions

In Limited Submission Programs, the sponsor restricts the number of applications or proposals a campus can submit to the agency. The guidelines for these programs require institutions to screen pre-proposals or nominations to determine which applications will be submitted for competition. Generally, institutions are allowed to submit one or two proposals or nominations to the sponsor. Prior to preparing a proposal, a faculty member should always review the instructions from the agency for any limitations on proposals from an institution. Although the Office of Research will attempt to notify faculty about limited submissions, it is the ultimate responsibility of the faculty member to check with the Office of Research in such cases.

The deadline for limited submission pre-proposals is 4PM unless otherwise indicated.

How to Submit a Limited Submission

1. Fill out a UCR Internal Preproposal Application Form.
2. If possible, append the additional items requested on the form (narrative, budget, etc) to the end of the form itself in a single PDF attachment.
3. Send the completed form (as one PDF attachment if possible) to limitedsubmissions@ucr.edu
4. If you were previously selected as a UCR nominee for this funding opportunity and were not successful then please provide a copy of the reviews you received from the agency with the pre-proposal indicating how you will address any deficiencies identified by the reviewers.

This macro does not provide rendering in WYSIWYG editor

Active Limited Submissions

<table>
<thead>
<tr>
<th>Date Posted</th>
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<tr>
<td>10/14/2014</td>
<td>Major Research Instrumentation - 2015</td>
<td>National Science Foundation</td>
<td>11/20/2014</td>
<td>1/22/2015</td>
</tr>
<tr>
<td>9/2/2014</td>
<td>Partnerships for Research and Education in Materials (PREM)</td>
<td>National Science Foundation</td>
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<td>1/7/2015</td>
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Proposal Development

Shared Documents

- Proposal Materials
- GAANN
  - Sample text for A2.docx
  - Template for an Entire GAANN proposal.doc
  - UCR GAANN diversity boilerplate 2013 lh rb Final.docx
- Logic Models
  - Logic Model Design Instructions
  - Example Logic Model.docx
  - ppt_logic_model.pptm
- NSF CAREER
- Organizational Plans
- Postdoctoral Mentoring Plan
- Previous UCR S-10 Awards
- Timeline Samples
  - 12 month timeline 9 categories.docx
  - 12 months 6 categories sample timeline.docx
  - Coming Soon.txt
- UCR_Equipment_and_Facilities
## Project logic model chart that illustrates scientific outputs and outcomes.

**Program:** Meeting avocado production challenges in the 21st century: Deploying marker assisted selection to enhance avocado breeding

**Logic Model**

**Situation:** US Avocado industry challenges for long-term sustainability include urban pressure, increased importations, and degradation of the growing environment. To remain sustainable one approach is to identify improved plant material that can provide higher quality fruit to the US consumer and/or enhanced plant tolerance to stress. Breeding efficiency needs to be improved to increase output of new material.

### Inputs
- California Avocado Commission participation and funding
- Grower community within California
- Grower cooperatives
- University of California team members
- University of California Cooperative Extension Scientists
- University of Florida team member
- Eastern TN State University Team Member
- USDA-ARS collaborators
- CA State University, Fullerton team member
- Avocado Nurseries
- International Avocado Genetics Working Group

### Activities
- Routine communication and consultation with Project Advisory Committee
- Biannual grower meetings at research sites; other outreach activities through popular publications and website updates
- OGS of scion material
- Collection of phenotypic data of scion material
- Screening and evaluation of rootstock material for salinity, drought and rootstock tolerance
- Genotyping of elite rootstock material
- Deployment of marker assisted breeding to enhance avocado plant improvement
- Release of improved scion and rootstock varieties

### Outputs
- Avocado consumers
- UCR student community
- University scientists
- Federal agency scientists
- International researchers working on avocado plant improvement
- California avocado growers and related sectors
- Water Resource Districts

### Participation
- Identification of genes controlling important horticultural traits
- In consultation with stakeholders begin identification of management strategies specific to individual rootstock or scion varieties
- Organization of an international conference on avocado genetics
- Establishment of open access website for international scientific community on avocado genome and transcripome
- Expand [www.ucaylon.ucr.edu](http://www.ucaylon.ucr.edu) to include information on rootstocks, salinity management and decision making tools
- Presentations of findings at scientific meetings

### Short
- Undergraduate, graduate and post-doctoral training in avocado genetics
- New guidelines for irrigation requirements for avocado
- Incorporation of data into the UCR Neural Network Decision Making Matrix for avocado to assist in better management of trees across varying environments
- Promote collaborative research ties among university departments, institutions and federal agencies

### Medium
- Enhanced sustainability of the California avocado industry by the introduction of improved rootstocks, salinity, and combinations
- New varieties to expand and seasonal market window for California fruit
- Improved cultural management schemes leveraging improved salinity, drought tolerance
- Development of diversified upland habitat plant material better adapted to high density planting
- Deployment of marker assisted breeding to increase efficiency of breeding efforts

### Long
- Assumptions
  - Avocado productivity is influenced by the interaction of the scion, rootstock and environment. To remain sustainable, the CA avocado industry needs improved genetic material better adapted to current and worsening conditions of salinity and drought. The tools for avocado breeding need to be improved with marker assisted breeding and genotyping. These goals can be achieved through a broad trans-disciplinary approach including plant geneticists, plant physiologists, soil scientists, modelers and the grower community.

### External Factors
- Matching funds from California Avocado Commission, grower cooperatives, nurseriesmen and other interested parties
- Stakeholder input into research direction and interpretation of results
- Funding from the USDA NIFASCRI program
- Project advisory committee
Resources Recap

• PIVOT, Limiteds application, plus secret boilerplate texts and grant materials at the Research Development site.
   http://research.ucr.edu/ORD.aspx
Research Development

• Randall “Randy” Black, Director
  Randall.Black@ucr.edu
  (951) 827-4889
Sponsored Programs
http://or.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.

Please **DO NOT** send a proposal to any agency without Sponsored Programs sign off!!
Sponsored Programs

When you receive your award we:

- Negotiate terms and conditions of contracts
- Accept and process awards
- Prepare and administer subawards
- Assist with post-award administration
- Assist with award closeout requirements
Research Integrity Committees

- Institutional Review Board (IRB) - Human Subjects Review Committee
- Institutional Animal Care and Use Committee (IACUC)
- Institutional Biosafety Committee (IBC)
- Stem Cell Research Oversight Committee (SCRO)
- Promoting Objectivity in Research
Research Integrity Committees

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 #.

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 #.

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 #.
Research Integrity Committees

STEM CELL OVERSIGHT (SCRO): The use of human pluripotent cells requires, at a minimum, review by the Stem Cell Research Oversight Committee AND the Institutional Biosafety Committee.

Promoting Objectivity in Research (formerly CONFLICT OF INTEREST): Guidelines are based on certain fundamental principles to keep the academic environment open and ensure freedom to publish and in accordance with State and Federal Laws.
Office of the Campus Veterinarian
http://or.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
What is Corporate Partnerships

- Coordinates UCR’s corporate relationships
- Help faculty identify and cultivate corporate relationships
- Engage industry to partner with UCR

When should you contact Corporate Partnerships?

- You want to engage industry
- Industry has engaged you
- Reminder:
  - Don’t sign/negotiate contracts yourself including Non Disclosure Agreements
Corporate & Strategic Partnerships

Emily Abbott
Director of Corporate and Strategic Partnerships
951-827-4772
emily.abbott@ucr.edu

Misty Madero, MPA
Principal Contract & Grant Officer
951-827-2210
mmadero@ucr.edu
What is OTC?

- Manages
  - intellectual property, including disclosures
  - License, option, equity, and confidentiality agreements private industry;

- Provides information and guidance on all aspects of intellectual property

Learn more at:

http://research.ucr.edu/OTC.aspx
What you need to do...

- Share your invention with us
  - Your first paper on the topic is much more important than tenth
  - Keep up-to-date lab notebooks
Office of Technology Commercialization

Richard Tun
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Fax: 951-827-4483

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Email: judy.swineford@ucr.edu
Phone: 951-827-7941
Nano Engineered Applications
Tango
Where We Are Located…

Research and Economic Development
University Office Building, Suite 200
(Building 205 on the campus map)
Phone number: (951) 827-5535
Fax number: (951) 827-4483
Web site: http://research.ucr.edu/or-home.aspx
# Upcoming Informational/Training Sessions

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Location</th>
<th>Topic</th>
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<tbody>
<tr>
<td>September 25, 2015</td>
<td>10:00 – 11:00 a.m.</td>
<td>HUB 260</td>
<td>Show me the Money (Funding Search Engines and Opportunities Including Demo on COS Pivot).</td>
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<tr>
<td>October 9, 2015</td>
<td>10:00 – 11:00 a.m.</td>
<td>HUB 260</td>
<td>What are these UCR internal systems and how do they help me (PAMIS eCAF, ePreAward, RED Web Portal)?</td>
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<tr>
<td>October 23, 2015</td>
<td>10:00 – 11:00 a.m.</td>
<td>HUB 269</td>
<td>What’s the fastest way to complete a Grants.gov proposal (Cayuse424)?</td>
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<td>October 29, 2015</td>
<td>8:30am – 4:00pm</td>
<td>UCR Alumni Center</td>
<td>IRB 101 presented by PRIM&amp;R</td>
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<tr>
<td>October 30, 2015</td>
<td>9am – 1:00pm</td>
<td>UCR Alumni Center</td>
<td>IRB 250 – Case Studies in Biomedical and Social Behavior Research presented by PRIM&amp;R</td>
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<td>November 6, 2015</td>
<td>10:00 – 11:00 a.m.</td>
<td>HUB 260</td>
<td>NSF FastLane and Research.gov?</td>
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<td>November 20, 2015</td>
<td>10:00 – 11:00 a.m.</td>
<td>HUB 260</td>
<td>NIH eRA Commons and PublicAccess?</td>
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<tr>
<td>December 4, 2015</td>
<td>10:00 – 11:00 a.m.</td>
<td>HUB 260</td>
<td>How do I get corporate funding?</td>
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</table>
THANK YOU!

Randall “Randy” Black
Director Research Development
Randall.black@ucr.edu

Rebeccah Goldware
Chief of Staff
Goldware@ucr.edu
(951) 827-6411

Charles E. Greer, Jr.
Associate Vice Chancellor for Research
Charles.greer@ucr.edu