Navigating the University: Research Advancement

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DC Office of Research Advancement
Office of the Vice President of Research

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What All Research Labs Need
Today’s Topics

• Research advancement activities - DC Office
• University resources for collaborations
• University & school internal funding
• External funding - foundations & federal agencies
Why a DC Office?

• East coast presence
• Staff with extensive federal funding agency program experience
• Global perspective on building collaborations, research programs
• Navigate complex federal bureaucracy
How the DC Office Helps

• Strategic planning
• Proposal preparation - scientific
  - Help develop ‘vision’
  - Help build collaborations (within & outside USC)
  - Writing, reviewing, editing
• Proposal preparation – logistic/administrative
  - Conference/video calls, meetings
  - Budgets, budget justifications, PARs
  - Biosketches, letters of support
  - References, figures
• Federal agency connections / advocacy / intel
• Faculty development
DC Office of Research Advancement
Applications Submitted and Awarded

Success Rate = 27%
Unique University Resources

- **Information Sciences Institute (ISI)**
  - $60 million annually from >20 federal agencies / corporations
  - [http://www3.isi.edu/home](http://www3.isi.edu/home)

- **Institute for Creative Technologies (ICT)**
  - US Army University Affiliated Research Center (UARC)
  - [http://ict.usc.edu/](http://ict.usc.edu/)

- **Southern California Clinical and Translational Science Institute (CTSI)**
  - [http://sc-ctsi.org/](http://sc-ctsi.org/)

- **Schaeffer Center for Health Policy and Economics**
  - Recruited Nobel Laureate in Economics (Daniel McFadden)
  - >$25 million in NIH grant support
  - [http://healthpolicy.usc.edu/](http://healthpolicy.usc.edu/)

- **School of Cinematic Arts**
  - #1 ranked cinema/film school (*US News and World Report*)
  - #1 game design program (*Princeton Review*)
  - [http://cinema.usc.edu/](http://cinema.usc.edu/)
Unique University Resources

• Biomimetic Microelectronic Systems (BMES)
  - NSF Engineering Research Center
  - [http://bmes-erc.usc.edu/](http://bmes-erc.usc.edu/)

• Center for Dark Energy Biosphere Investigations (C-DEBI)
  - NSF Science and Technology Center
  - [http://www.darkenergybiosphere.org/](http://www.darkenergybiosphere.org/)

• The Wrigley Institute for Environmental Studies
  - Philip K. Wrigley Marine Science Center housed on Catalina Island
  - [http://wrigley.usc.edu/home/index.cfm](http://wrigley.usc.edu/home/index.cfm)

• The Norman Lear Center
  - Funding includes NIH, CDC, Gates Foundation, Ford Foundation, etc
  - [http://blog.learcenter.org/](http://blog.learcenter.org/)

• Division of Biokinesiology and Physical Therapy
  - #1 ranked physical therapy program since 2004 ([US News and World Report](http://www.usnews.com/education/best-graduate-schools/rankings/physical-therapy/))
  - [http://pt.usc.edu/](http://pt.usc.edu/)
Unique University Resources

- **Signal Analysis and Interpretation Laboratory (SAIL)**
  - Research funded by NSF, NIH, DARPA, ARO, ONR, industry, etc
  - [http://sail.usc.edu/](http://sail.usc.edu/)

- **Spatial Sciences**
  - Geographic information technologies and methods
  - [http://spatial.usc.edu/](http://spatial.usc.edu/)

- **Game Theory and Human Behavior**
  - Interdisciplinary collaboration between 11 USC schools and 71 faculty
  - [http://gthb.usc.edu/](http://gthb.usc.edu/)

- **Center for Applied Molecular Medicine (CAMM)**
  - Led by oncologist Dr. David Agus
  - Funding includes NIH/NCI Physical Sciences Oncology Center
  - [http://camm.usc.edu/index.html](http://camm.usc.edu/index.html)
Center for Excellence in Research (CER)

- **CER Research Advancement Workshops**
  - Example workshops include:
    - THIS EVENT!
    - Developing NIH Applications (Dr. Steven Moldin)
    - Preparing and Submitting NSF Proposals (Dr. Phil Taylor)
    - Developing and Submitting a DoD and DoE Research Grant (Dr. James Murday)
  - [http://research.usc.edu/about/vp/cer/](http://research.usc.edu/about/vp/cer/)

- **Proposal Review Service**
  - Peer-to-peer proposal review for applications to external funding agencies
  - Notify Office of Research 4 weeks before proposal due date

Contact info: Christine Lavoie in the Office of Research (clavoie@usc.edu or 213-740-6709).
Internal University Funding

- **Zumberge Fund Awards**
  - **Interdisciplinary Awards (LARGE):**
    Funding amount: $50,000
    Due Date: January 2013
  - **Interdisciplinary Awards (SMALL):**
    Funding amount: $10,000
    Due Date: Open
  - **Individual Awards:**
    Funding amount: $25,000
    Due Date: January 2013
    - [http://research.usc.edu/for-investigators/funding/usc/zumberge/](http://research.usc.edu/for-investigators/funding/usc/zumberge/)

- **USC Collaboration Fund**
  - Organization of workshops, seminars, online resources, etc.
    Funding amount: $30,000
    Due Date: April 2013
  - [http://research.usc.edu/for-investigators/funding/usc/collaboration/](http://research.usc.edu/for-investigators/funding/usc/collaboration/)

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Internal Funding from USC Schools

- **Keck:** CTSI Pilot Program
  - Already has awarded $1.7 million to 51 awardees
  - Funding amount: Varies
  - Due Date: Fall and spring each year
  - Link: [http://sc-ctsi.org/](http://sc-ctsi.org/)

- **Viterbi:** Research Innovation Fund
  - Novel strategic research directions, projects, and activities
  - Funding amount: $10,000
  - Due Date: Fall and spring each year
  - Link: [http://viterbi.usc.edu/research/info/vsoeinitiatives/vsoe-research-innovation-fund.htm](http://viterbi.usc.edu/research/info/vsoeinitiatives/vsoe-research-innovation-fund.htm)

- **Dornsife:** The New Investigator Seedling Initiative
  - One-time seed research funds to aid extramural proposals
  - Funding amount: $2,500
  - Due Date: Open
  - Link: [http://dornsife.usc.edu/initiatives/](http://dornsife.usc.edu/initiatives/)

Link to all internal USC funding opportunities: [http://research.usc.edu/for-investigators/funding/usc/](http://research.usc.edu/for-investigators/funding/usc/)
External Funding from Foundations

- **Burroughs Wellcome Fund - Career Awards for Medical Scientists (CAMS)**
  - Internal Deadline: 8/13/2012  
  - Sponsor Deadline: 10/1/2012  
  - Funding amount: $700,000 over 5 years  

- **Searle Scholars Program**
  - Internal Deadline: 8/20/2012  
  - Sponsor Deadline: 9/28/2012  
  - Funding amount: $300,000 over 3 years  
  - Link: [http://www.searlescholars.net/](http://www.searlescholars.net/)

- **Pew Scholars Programs in the Biomedical Sciences**
  - Internal Deadline: 8/20/2012  
  - Sponsor Deadline: 11/1/2012  
  - Funding amount: $240,000 over 4 years  

- **Beckman Young Investigators**
  - Internal Deadline: 8/20/2012  
  - Sponsor Deadline: 10/3/12 (LOI)  
  - Funding amount: $750,000 over 4 years  
Trends in Research by Agency, FY 1976-2013

Billions of FY 2012 Dollars

Source: 1976-1994 figures are from the NSF federal funds survey; remainder is from AAAS R&D reports. FY 2012 figures are latest estimates, FY 2013 is the President's budget.

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Federal Funding

Junior Investigator, Pre- & Post-Doctoral Support

- DOD Young Investigator Program (DOD YIP)
- NSF Faculty Early Career Development Program (NSF CAREER)
- DOE Early Career Research Program
- NIH individual fellowship and career development awards (pre- and postdoctoral; clinical and basic; mentored and non-mentored)
- NSF and NIH institutional training grants (T32, IGERT)

Lab Infrastructure Support

- NIH Shared Instrumentation Grant Program (S10)
- NSF Major Research Instrumentation Program (MRI)
- DOD Defense University Research Instrumentation Program (DURIP)
DC Office for Research Advancement

Additional questions, advice:
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