Navigating the University: Research Advancement

Steven O. Moldin, Ph.D.
DC Office of Research Advancement
Office of the Vice President of Research

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DC Office Goals

• Provide USC presence near funding agencies
• Identify large-scale funding opportunities
• Form collaborations within and outside USC to develop competitive applications
• Support proposal preparation
• Navigate federal bureaucracy
Research Adv - Organization

Vice President for Research
Randolph Hall

Executive Director
Steven Moldin

Physical Sciences
James Murday

Cyber Initiatives
Allan Olson

Program Manager
Robyn Gill

Project Specialist
Amber Gray

Grant Writer
Daniel Barker

Junior Grant Writer
Phoebe Lyman

Junior Grant Writer
Jordan Locy

Project Specialist
Stephanie Griep

Project Specialist
Ashley Gordon
Research Advancement Scope

• Assisted faculty from all but 3 USC schools
• Focus on complex proposals, e.g., NIH centers, DoD MURIs, NSF STCs, training grants, etc.
• Limited assistance with smaller proposals from individual labs
• Target multiple federal agencies, including AHRQ, CDC, CIA, DARPA, DHHS, DHA, DoC, DoD, DoE, DoED, DoS, DoT, EPA, IARPA, NASA, NEA, NGA, NIH, NRO, NSA, NSF, USDA
Research Advancement Services

- 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
Mission Agency Programs (MAPs)

- [http://web-app.usc.edu/web/ra_maps/](http://web-app.usc.edu/web/ra_maps/) [login required]
- Connect faculty with funding agency program officers
- 500+ program officer profiles across 8 agencies (DHS, DOC, DOD, DOE, DOED, EPA, NASA, USDA)
- 500+ faculty profiles organized by/linked to keywords
% of Assisted Faculty Who Have Utilized Research Advancement Services

- Identify Funding
- Interface with agencies
- Assemble proposal team
- Utilize USC MAPs
- Write proposal
- Review/edit
- Create Figures
- Add references
- Generate admin docs
- Generate budget
- Review budget
- Budget justification
- Set up conference calls
- Coordinate across schools
- Submit application

![Bar chart showing the percentage of assisted faculty who have utilized research advancement services for various tasks.](chart.png)

Legend:
- Planning/Strategy
- Proposal
- Budget
- Logistics
DC Office of Research Advancement
Applications Submitted and Awarded

Success Rate = 29.6%
DC Office of Research Advancement
Cumulative Dollars Awarded

$525,695,401

($ Millions)

Unique USC 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/)
- **Clinical Resources**
  - [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/)
- **Outreach Partners**
USC Research Strengths

- Neuroimaging & Big Data Bioinformatics
- Aging & Alzheimer’s Disease
- Biomedical Devices
- Environmental Health
- Health Policy
- National Security
- Information Science
- Quantum Computing
- Brain Computer Interfaces
- Children’s Health
- Convergent Biosciences

In billions of constant FY 2015 dollars

Source: AAAS Report: Research & Development series. FY 2015 figures are latest estimates, FY 2016 is the President's request. © 2015 AAAS
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)
- NIH Transformative Research Awards (R01)
- NIH Pioneer Award Program (DP1)
- NIH Director’s New Innovator Award Program (DP2)
- NIH & NSF institutional training grants (T32, NRT)

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: Dr. Steven Moldin
moldin@usc.edu
http://twitter.com/#!/usc_dcresearch
202-824-5860