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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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 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

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

Success Rate = 28%

Submitted
Awarded

687
195
DC Office of Research Advancement
Cumulative Dollars Awarded

Awarded

$402,013,065
Building USC Leadership in Biomedical Big Data

- **Problem:** While size, scale, and complexity of data sets have rapidly increased, lack of tools to analyze ‘Big Data’ stands as a major impediment to scientific progress
- **Outcome:** In 2014, USC received $23M for 2 of 11 Big Data Centers of Excellence funded by NIH. These centers are part of newly endowed Mary and Mark Stevens Neuroimaging & Informatics Institute
- **Implications:** Tools produced by USC’s Centers of Excellence will unlock enormous potential of large data sets and more rapidly foster new biomedical discoveries, knowledge, treatments
Established by donor gift in 2009
Collaboration between USC School of Public Policy and USC School of Pharmacy
Led by Stanford trained economist Dana Goldman
Recruited Nobel Laureate in Economics (Daniel McFadden)
Strong partnerships with Harvard, Stanford, Dartmouth, Boston University, Brookings Institution and RAND Corporation
>$35 million in NIH grant support
  - Behavioral Economics, Science of Medicare Reform, Health Policy & Simulation
School of Cinematic Arts

- #1 ranked cinema/film school in US
- Six Divisions
  - Critical Studies, Animation & Digital Arts, Interactive Media, Film & TV Production, Producing, Writing
  - #1 ranked game design program
- Interest in health
  - Health behavior game (RWJF)
  - Obesity prevention game (NIH)
  - Immunology education game (NSF)
  - Autism education project (AHRQ)
- Faculty awards include Oscars, Emmys, Golden Globes, Pulitzer, etc
- Private donors - e.g., George Lucas, Steven Spielberg, Jeffrey Katzenberg, Brian Grazer
- Corporate donors - e.g., Walt Disney, Microsoft, Electronic Arts, Warner Bros
- Public & private funding - AHRQ, NIH, USDA, Dept of State, Gates Foundation
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)
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Additional questions, advice:
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