WORKSHOP ON RESEARCH FUNDING
Office of the Vice Chancellor for Research
# AGENDA

## SESSION 1 EARLY CAREER OPPORTUNITIES & TIPS

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<tr>
<th>Time</th>
<th>Activity</th>
<th>Speaker(s)</th>
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<tr>
<td>1:00-1:05</td>
<td>Introductions &amp; Welcome</td>
<td>VCRDGS Costas Tsatsoulis</td>
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<td>1:05-1:20</td>
<td>OVCR Support</td>
<td>Maria Shaub, OVCR</td>
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<td>1:20-1:50</td>
<td>Career Awards (Types, Eligibility, and Deadlines), Positioning Yourself for Success, &amp; Broader Impacts</td>
<td>Maria Shaub, OVCR</td>
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<td>1:50-2:00</td>
<td>Questions, Session 2 Preview, &amp; Break</td>
<td>VCRDGS Costas Tsatsoulis</td>
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## SESSION 2 PROPOSAL DEVELOPMENT AS PROJECT MANAGEMENT

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<tr>
<td>2:00-2:05</td>
<td>Introductions &amp; Welcome</td>
<td>VCRDGS Costas Tsatsoulis</td>
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<td>2:05-2:10</td>
<td>OVCR Support</td>
<td>Summer Young, OVCR</td>
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<td>2:10-2:50</td>
<td>Project Management for Proposal Development</td>
<td>Summer Young, OVCR</td>
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<td>2:50-3:00</td>
<td>Questions &amp; Closing Remarks</td>
<td>VCRDGS Costas Tsatsoulis</td>
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OVCR SUPPORT FOR EARLY-CAREER FACULTY

> Office of Sponsored Programs (OSP) pre-award administrators

> OSP proposal compilation, vetting, and submission milestones

> OVCR travel grants for visiting agencies

> complex proposal development assistance

> early career faculty proposal development assistance
CAREER AWARDS
Types & Deadlines Overview

> National Science Foundation (NSF) – Faculty Early Career Development Award (CAREER)
  
  – Goals
    > To support those who can be academic role models in both research AND education
  
  – Eligibility
    > PhD
    > At least 50% tenure track position as an assistant professor
    > Untenured
    > Haven’t received a CAREER award before
  
CAREER AWARDS
Types & Deadlines Overview

> NSF CAREER - Differences
  – Focus is on research AND education
  – Proposals are expected to be lofty – above and beyond the usual teaching and advising
  – Not just a 5-year research project
    > it’s a career development award
    > there must be a vision
  – Can only apply 3 times
From the Recent NSF CAREER Workshop ...

Unique Value Proposition (UVP)

I am uniquely well-qualified to carry out this work because ____________________.

Person
What is my story?
How did I get here?

skills / knowledge
perspective / experience

What makes me different, surprising, believable?

Project
Why does this problem urgently need to be solved?

Is the potential payoff transformative?

How will success lead to what comes next?

Environment
What resources do I have that nobody else does?

Can I show that I am ready to pull this off?

track record – publications, preliminary data
From the Recent NSF CAREER Workshop…

NSF Evaluation Criteria: Intellectual Merit

- Intellectual Merit
  - Advancement and contribution of knowledge in its own field or across different disciplines?
  - Creative and original concepts?
  - Well-conceived and organized proposal?
  - Qualification of the PI?
  - Sufficient access to resources?

- This proposal is potentially transformative because if successful it would …
- The research described in this proposal is novel in that, for the first time …
CAREER AWARDS
Types & Deadlines Overview

> NSF CAREER – Common Issues
  – The Proposed Work
    > Too similar to what has been done before
    > Scope is too big or too small
    > Project design is flawed
    > Education component is generic or what is already expected
    > Research and education components not aligned/integrated
  – The Application
    > Documents missing, especially the departmental letter
    > Document is hard to read – small fonts, narrow margins
    > Figures too small/legends lack detail
    > Missed deadline
    > Not “selling” your work
    > Listing co-PIs on the cover page
CAREER AWARDS
Types & Deadlines Overview

> NSF CAREER – Most important step
  – Contact the program manager!
    > Give a short pitch for your research – send a one-page summary of your idea
      – No methodological details
      – No minutiae of the literature review
      – Just the big picture, especially expected outcomes/deliverables
    > Ask for suggestions
    > Ask about preferred budget limits
    > Ask if you should apply to a different program/directorate
    > Ask what issues they commonly find in CAREER proposals
CAREER AWARDS
Types & Deadlines Overview

> Department of Defense – Air Force Office of Scientific Research (AFOSR) – Young Investigator Program (YIP)
  
  - Goals
    > To support those with exceptional ability and promise for conducting basic research
  
  - Eligibility
    > PhD received 4/1/2013 or later
    > US citizen, national, or permanent resident by 10/1/2020
  
  - Deadline – White papers due 5/14/2020, proposals due 7/14/2020
Department of Defense – Office of Naval Research (ONR) – Young Investigator Program (YIP)

- Goals
  - To attract outstanding faculty members to the Navy’s science and technology program, to support their research, and to encourage their teaching and research careers

- Eligibility (as listed in past solicitations)
  - In first or second full-time tenure-track or equivalent appointment
  - PhD received 1/1/2013 or later
  - US citizen, national, or permanent resident by proposal due date
  - Must show exceptional promise for creative research

- Deadline – Mid August 2020 (expected)
Department of Defense – Defense Advanced Research Projects Agency (DARPA) – Young Faculty Award (YFA)

- Goals
  - To identify and engage rising stars in junior research positions, enabling them to develop research ideas in the context of national security needs
- Eligibility (as listed in past solicitations)
  - Must be employed at a US institution
  - Must be current tenure-track assistant/associate professor or tenured faculty within 3 years of tenure date
- Deadline – Mid November 2020 (expected)
CAREER AWARDS
Types & Deadlines Overview

> Department of Defense – Army Research Office (ARO) – Young Investigator Program (YIP)
  
  – Goals
    > To attract outstanding young university faculty members to pursue fundamental research in areas relevant to the Army
  
  – Eligibility
    > PhD for fewer than 5 years at time of application
    > Tenure-track position at a US college or university
    > US citizen, national or permanent resident alien
  
  – Deadline – Applications accepted year-round
CAREER AWARDS
Types & Deadlines Overview

> Department of Defense – Army Research Institute for the Behavioral and Social Sciences Foundational Research Unit (ARI) – Early Career Award

  - Goals
    > To foster the development of innovative and creative researchers early in their careers to investigate areas in the behavioral and social sciences with high potential impact on Army personnel

  - Eligibility
    > PhD within 5 years of proposal submission
    > No previous ARI funding as PI

  - Deadline – Mid July (expected) – White Papers encouraged
CAREER AWARDS
Types & Deadlines Overview

> Department of Defense – Congressionally Directed Medical Research Program (CDMRP) – Early Career Investigator Award

– Goals
  > To foster novel approaches to biomedical research for the benefit of the military, Congress, and the American public
  > To develop research projects and investigate problems while furthering development of researchers for the future

– Eligibility
  > PhD awarded no more than 3 years ago
  > Employed at an eligible organization

– Deadline – varies by program
CAREER AWARDS
Types & Deadlines Overview

> Department of Energy (DOE) – Early Career Research Program
  – Goals
    > To support the research of outstanding scientists early in their careers
  – Eligibility
    > PhD awarded within last 10 years
    > Untenured, tenure-track assistant/associate professor position
    > Employed at a US academic institution or DOE national lab
  – Deadline (Just passed)
    > Mandatory pre-application was due January 2020
    > Invited applications were due March 2020
CAREER AWARDS
Types & Deadlines Overview

> NASA – Early Career Faculty Grants – Space Technology Directorate
  – Goals
    > To sponsor research in areas of interest to the US space program while supporting faculty early in their careers who intend to develop academic careers related to space technology
  – Eligibility
    > Untenured assistant professors on tenure tracks at time of award
    > US citizen or permanent resident
  – Deadline – April 22, 2020 (NOIs were strongly suggested and due February 26, 2020)
CAREER AWARDS
Types & Deadlines Overview

> NASA – Planetary Science Early Career Award (ROSES)
  – Goals
    > To support the research and professional development of early-career scientists to stimulate research careers in areas supported by the Planetary Science Division
  – Eligibility
    > PhD within last 10 years
    > Affiliation with a US institution
  – Deadline – Early December (expected)
CAREER AWARDS
Types & Deadlines Overview

> National Institutes of Health (NIH) – K Series Career Development Awards
  – Goals
    > To prepare individuals for careers in biomedical, behavioral, social, and clinical research with the goal of making important discoveries to improve health and save lives
  – Eligibility
    > Varies by institute/program but typically PhD within past 10 years
    > Must be a citizen, non-citizen national or legal, permanent resident by time of award (except K99)
  – Deadline – May vary by program but typically mid February, June, and October each year
> Department of Agriculture (USDA) – Ag Food Research (AFRI) Food and Ag Science Enhancement (FASE) – New Investigator Award

- Goals
  > To attract new scientists and educators to careers in high-priority areas of national need in agriculture, food, and environmental sciences

- Eligibility
  > Less than 5 years of post grad career-track experience, at the beginning of their career, no extensive record of scientific publication

- Deadline –Varies by program
CAREER AWARDS
Types & Deadlines Overview

> Department of Education – Early Career Development and Mentoring Program

  – Goals
    > To support investigators in the early stages of their careers who have established an interest in special education research

  – Eligibility
    > PhD no earlier than April 2017 (expected)
    > Tenure-track position
    > Citizen or permanent residents
    > No previous awards as PI or co-PI through Institute of Education Sciences research grant

  – Deadline – Late August 2020 (expected)
CAREER AWARDS
Types & Deadlines Overview

>  Presidential Early Career Award for Scientists and Engineers (PECASE)
  
  – Goals
    > To honor outstanding scientists and engineers in the early stages of their independent research careers
    > To identify a cadre of scientists and engineers who will advance science and the missions important to participating agencies
  
  – Eligibility
    > Must be a US citizen, national, or permanent resident

  – Deadline – No application process – candidates are recommended by participating agencies based on previously submitted grant proposals
POSITIONING YOURSELF FOR SUCCESS

> Craft your pitch
  - Keep it brief (just a few paragraphs)
  - Answer these questions
    > Broadly, what is the issue?
    > What part of issue will you tackle?
    > Why aren’t current solutions working?
    > Why does it matter to this particular agency?
    > Broadly, what are you proposing to do?
    > How will the world change if your solution works?

> Contact the program manager to talk about your idea

> Offer to serve on review panels
BROADER IMPACTS

> Are the potential to benefit society and contribute to the achievement of specific, desired societal outcomes

> Should be
  – Achievable
  – Substantive
  – Assessable
  – Personal

> Go above and beyond traditional faculty responsibilities

> Can be one or several in any particular proposal – should be related to your goals and objectives
Questions?

> Please join us at the top of the next hour for information on project management for proposal development.