

# WORKSHOP ON RESEARCH FUNDING

Office of the Vice Chancellor for Research



# AGENDA

<b>SESSION 1</b>	<b>EARLY CAREER OPPORTUNITIES &amp; TIPS</b>	
1:00-1:05	Introductions & Welcome	VCRDGS Costas Tsatsoulis
1:05-1:20	OVCR Support	Maria Shaub, OVCR
1:20-1:50	Career Awards (Types, Eligibility, and Deadlines), Positioning Yourself for Success, & Broader Impacts	Maria Shaub, OVCR
1:50-2:00	Questions, Session 2 Preview, & Break	VCRDGS Costas Tsatsoulis
<b>SESSION 2</b>	<b>PROPOSAL DEVELOPMENT AS PROJECT MANAGEMENT</b>	
2:00-2:05	Introductions & Welcome	VCRDGS Costas Tsatsoulis
2:05-2:10	OVCR Support	Summer Young, OVCR
2:10-2:50	Project Management for Proposal Development	Summer Young, OVCR
2:50-3:00	Questions & Closing Remarks	VCRDGS Costas Tsatsoulis

# 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
  - Deadline – July 27, 2020

# 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

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- 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

# CAREER AWARDS

## Types & Deadlines Overview

- > 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)

# CAREER AWARDS

## Types & Deadlines Overview

- > 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

# CAREER AWARDS

## Types & Deadlines Overview

- > 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.