FY 2019 UNM NSF CAREER COHORT

Introductory Meeting October 9, 2018

CAREER Proposal Timeline

Time Frame	Task		
D – 12 months	Start making outreach connections if part of your proposal		
D – 9 months	Identify and make contact with your NSF program officer. Consider sending them a white paper if appropriate.		
D – 6 months	Select expert readers to advise on proposal (Internal & External)		
D – 2 months	 Talk to your chair about required resources you'll need to include i department letter 		
	 Share a rough draft with readers (non-expert & expert) 		
	 Start working with department FRSO or administrator to develop proposal 		
D – 5 weeks	Polished draft to readers (non-expert & expert)		
D – 3 weeks	Chair should have your draft proposal including their department letter and your CV		
D – 2 weeks	Proofreading of proposal by readers (non-expert)		
D – 5 days	Route your proposal with final budget and other non-technical pieces + drafts of technical pieces		
D – 2 days	OSP should have your final proposal for their review		
Due Date	NSF has your proposal		

Why are we here?

Goals of the Cohort

- Simplify grant writing process into manageable chunks
 - Education Plan
 - Broader Impacts
 - Introduction
- Alleviate the pressure of maintaining a deadline
- Develop a peer support network

CAREER Cohort Overview

FRDO Led Workshop Format				
October 2018	Introductory Meeting			
November 2018	Broader Impacts Workshop			
December 2018	Building your Dream Budget			
January 2019 (2 sessions)	Developing Administrative Documents			
Writers Workshop Peer Review Format				
February & March 2019 (4 sessions)	Designing your Education Plan			
April 2019 (2 sessions)	Developing your Broader Impacts Plan			
May 2019 (2 sessions)	Bring it Together – the Introduction			

Is it your time to submit?

- Tenure track assistant professor
- Untenured prior to October 1, 2019
- 3 submissions limit regardless of institution
- Not a training grant
- Tool to help early investigators build a firm foundation for a lifetime of contributions to research, education, and their integration.

Register with Research.gov

- https://www.research.gov/accountmgmt/ #/registration
 - NSF ID associated with UNM
 - UNM DUNS number 868853094

Get Started





Make contact with your NSF Program Officer Establish your Broader Impacts partnerships

Identify Proposal Readers



Expert Reviewers

Non-Expert Reviewers

CAREER Cohort Schedule

FRDO Led Workshop Format					
October 9, 2018	Introductory Meeting				
November 13, 2018	Broader Impacts Workshop				
December 11, 2018	Building your Dream Budget				
January 15, 2019	Personnel Documents – Biosketch, Current and Pending, Collaborators and Other Affiliates				
January 29, 2019	Data Management Plan, Facilities & Equipment, Bibliographies				
Writers Workshop Peer Review Format					
February & March 2019	Designing your Education Plan				
February 12, 2019	Develop (What makes the most sense for you?)				
February 26, 2019	Build an Appropriate Evaluation Plan				
March 5, 2019	Integrate it with your Research Plan				
March 19, 2019	Integrate it with Goals of Dept. and UNM in the Letter from your Chair				
April 2019	Developing your Broader Impacts Plan				
April 9, 2019	Identifying the Right BI for you as the PI				
April 23, 2019	Building a Plan within your Budget				
May 2019	Bring it Together - Best Introduction Yet				
May 7, 2019	Grab the Reviewers Attention				
May 21, 2019	Prepare them to be Amazed				

DESIGNING THE RIGHT BROADER IMPACTS PLAN FOR YOU November 15, 2018

STEPHANIE TOFIGHI (sctofighi@unm.edu) FACULTY RESEARCH DEVELOPMENT OFFICE

AGENDA

What are Broader Impacts?

Establishing your Broader Impacts Identity

How to be a Realistic Planner

Tools Available Online

Campus Resources



WHAT ARE BROADER IMPACTS (BI)?

- Also referred to as Outreach Efforts
- The potential of a sponsored project to <u>benefit</u> society and <u>contribute</u> to the achievement of specific, desired societal outcomes

BROADER IMPACTS GOALS OF THE NSF

- Full participation of women, persons with disabilities, and underrepresented minorities in science, technology, engineering, and mathematics (STEM)
- Improved STEM education and educator development at any level
- Increased public scientific literacy and public engagement with science and technology
- Improved well-being of individuals in society

- Development of a diverse, globally competitive STEM workforce
- Increased partnerships between academia, industry, and others
- Improved national security
- Increased economic competitiveness of the U.S.
- Enhanced infrastructure for research and education

WHEN THE RESEARCH IS THE BROADER IMPACT...

Structural Evolution Through the Lifecycle of Hurricane Sandy (2012) AGS 1322532

> Operational models of weather systems, storm forecasting and resilience planning



CAREER: Architectural Support for CPU / GPU Hybridization CCF 1149539

> Broad potential to improve energy efficiency and battery life and to advance fields that rely on HPC



WHEN THE BROADER IMPACTS ARE DIRECTLY RELATED TO RESEARCH PROJECT...

The LIFE Center: Learning in Informal and Formal Environments SMA 0835854

 PI collaborates with organizations and policymakers to develop science-based programs that help children maximize their ability to learn.



CAREER: Rationally Designed Conjugated Polymers Based on Benzobisazoles DMR 0846607

> Interdisciplinary research experiences for undergrad and graduate students and chemistry ambassadors which target underrepresented students grades 8-12.



WHEN THE BROADER IMPACTS ARE SUPPORTED BY, YET COMPLEMENTARY TO THE RESEARCH PROJECT...

Computational Behavioral Science: Modeling, Analysis, and Visualization of Social and Communicative Behavior IIS 1029679

 Museum exhibit that integrated computer vision tools developed through this project with robotics tools from another Expedition



Energize New Mexico IIA 1301346

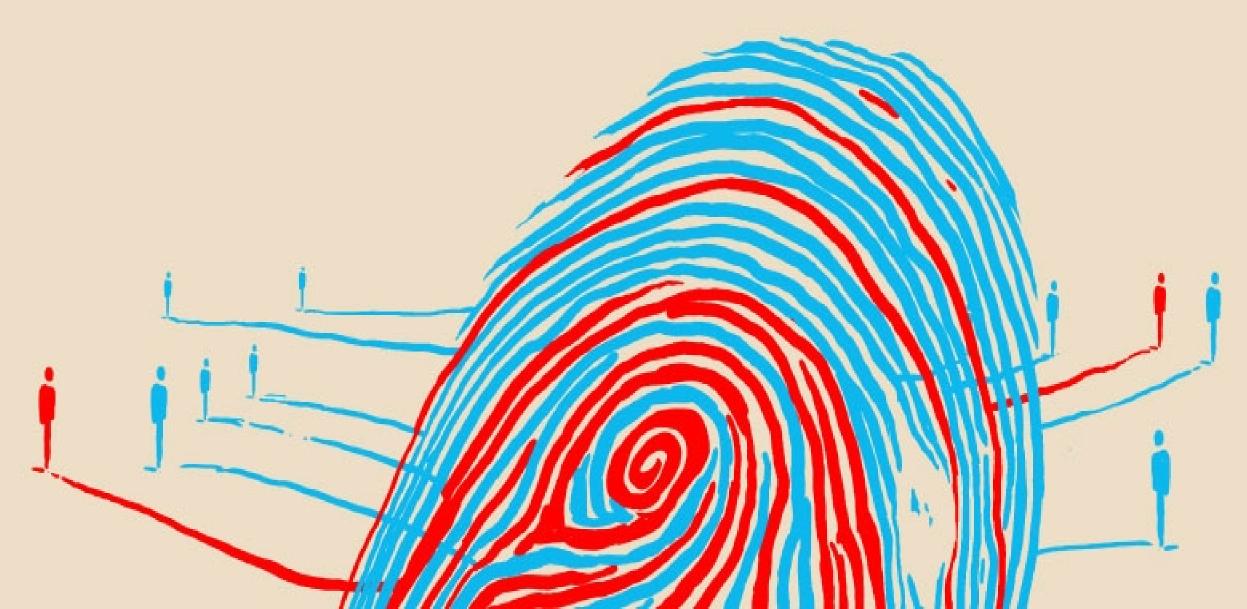
> • The NM EPSCoR project supports an array of outreach and education efforts designed to share the research developed by the project with stakeholders and the broader community.



New Mexico Informal Science Education Network

Connecting NMEPSCoR Research to the Classroom

WHAT IS YOUR BROADER IMPACTS IDENTITY?



HOW TO PLAN REALISTICALLY...

- 1.Follow the Solicitation
- 2. Identify a Target Audience
- 3.Set a Goal for that Audience
- 4. Develop Appropriate Partnerships
 5. Budget Accordingly
 6. Include an Evaluation Plan



IDENTIFYING A TARGET AUDIENCE



- Realistically applicable to your proposed project goals
- Fits your personality and qualifications
- Effectively accounts for time, budget, and people constraints

SETTING A GOAL FOR YOUR TARGET AUDIENCE

- Timeline to the Future
- How many people, industries, government agencies, etc. will be affected?
- Do you need to include <u>learning</u> <u>standards</u>?



BUDGET RESOURCES ACCORDINGLY

MONEY & GOODS

- Is it included in the proposed budget?
- Is it participant support?
- Is it unfunded collaboration?
- Are you using resources already available at your home or collaborative institution?
- How much will an evaluator cost?

PEOPLE

- Do you have enough people?
- Are they qualified to conduct the proposed activities?
- Do you need to hire a consultant?
- Do you have the right contacts?
- How do you start the conversation to develop a broader impacts relationship?

TIME

- How long will your broader impact take?
- Does it need to happen during a certain time to meet the goals?
- Do you or your target audience need to travel?
- Is this feasible to both your schedules?

Request support from the Faculty Research Development Network by clicking this link.

Tools for Preparing your Broader Impact

- Developing a Broader Impacts Plan
- NABI Broader Impacts Guiding Principles and Questions for NSF Proposals
- NSF Merit Review Broader Impacts Criterion: Representative Activities

Journal of STEM Outreach
 Journal for researchers

who develop and implement programs connecting formal and informal educators with STEM professionals.

Examples of Broader Impacts

- Publications with undergraduate or minority student authors
- Community or workforce engagement
- K-12 education and outreach
- Undergraduate research
 experience
- Industry engagement
- Instances of improving societal well-being or public awareness
- Transformative discovery
- Data sharing

UNM BROADER IMPACTS

The National Science Foundation (NSF) describes Broader Impacts as being the potential of a research project to benefit society and contribute to the achievement of specific, desired societal outcomes. Per the NSF, broader impacts may be accomplished **through the research itself**, **through activities directly related to specific research projects**, or **through activities supported by**, **yet complementary to the project**. Even though the NSF is the only sponsor that specifically names Broader Impacts as an evaluation measure, this desire to improve the world around us through research and other externally funded endeavors is common to most funding opportunities. As a result, the OVPR and FRDO would like to offer their assistance to faculty looking to develop broader impacts strategies to include in their proposals. Use the button below to request support.



NSF Perspectives on Broader Impacts

NSF values the advancement of scientific knowledge and activities that contribute to the achievement of societally relevant outcomes. Such outcomes include, but are not limited to:

- Full participation of women, persons with disabilities, and underrepresented minorities in science, technology, engineering, and mathematics (STEM)
- Improved STEM education and educator development at any level
- Increased public scientific literacy and public engagement with science and technology
- Improved well-being of individuals in society
- Development of a diverse, globally competitive STEM workforce
- Increased partnerships between academia, industry, and others
- Improved national security
- Increased economic competitiveness of the US
- Enhanced infrastructure for research and education



Each year, the National Science Foundation (NSF) receives about 50,000 proposals for funding. Because there are many more worthy proposals than NSF is able to fund, the foundation distinguishes among them through a merit review process that incorporates two criteria: intellectual merit and broader impacts. **Read about more broader impacts examples** from the NSF here.

TOOLS AVAILABLE ONLINE

NSF Perspectives on Broader
 Impacts -

https://www.nsf.gov/od/oia/pub lications/Broader_Impacts.pdf

- National Alliance on Broader
 Impacts (NABI) https://broaderimpacts.net/
- Broader Impacts at UNM http://frdo.unm.edu/unm_broad
 er_impacts

NM STEM Connection

NM STEM-H Connection

Managed by the UNM STEM-H Center for Outreach, Research and Education with support from the NM Experimental Program to Stimulate Competitive Research (NM EPSCoR), the NM STEM Connection provides information about STEM resources for K-12 students, teachers, parents, counselors, and administrators as well as higher education faculty/staff and community members in New Mexico.

STEM University

UNM STEM University

STEM University is a collection of free outside-of-class activities related to science, technology, engineering and mathematics disciplines (STEM) put on by the STEM Collaboration Center. These events connect UNM students with STEM research, scientists, technology and leadership. Faculty can post STEM events by following this link. Click here to access the current list of STEM University events.

UNM Outreach Organizations



education of students from minority and underrepresented groups.

African American Student Services American Indian Student Services El Centra de la Raza Native Americans in STEM (NASTEM) **Project for NM Graduates of Color** Ronald E. McNair Scholars Program Student Support Services **UNM Division of Equity and Inclusion**

Mission: Graduate



Mission: Graduate is a partnership that brings together educators, employers, educational support providers, government leaders, and citizens to design collaborative projects and align organizational practice and policy toward achieving common goals. They seek partners with interest, experience, & expertise needed to successfully realize their seven core outcomes.

Girls in STEM Groups



These New Mexico groups are devoted to engaging primarily K-12 girls in STEM. The NM Girls Connection Programs and NM Out-of-School Time Network links includes an assortment of programs.

NM Girls Connection Programs NM Out-of-School Time Network **Girl Scouts of New Mexico Trails** Expanding Your Horizon (EYH) ABQ STEM Santa Fe

Industries in NM



Industry collaborations are positive outcomes of some broader impacts. Below are links to some industries in New Mexico already working to improve STEM education and may be productive partners in your proposal.

Key Albuquerque Industries Boeing Honeywell Intel Northrop Grumman Raytheon

UNM College Based Outreach



A number of schools and colleges at UNM offer outreach opportunities. These are excellent places to begin your own outreach effort, either as an example to follow or as a collaborative partner. Check out the links to their outreach pages below.

College of Arts & Sciences College of Education College of Fine Arts **School of Architecture & Planning** School of Engineering

New Mexico EPSCoR



One mission is to cultivate a wellqualified and diverse Science, Technology, Engineering and Mathematics (STEM) workforce and develop a strong culture of innovation and entrepreneurship. Through collaborations with organizations ranging from afterschool programs to colleges and universities, from museums to business startup accelerators, NM EPSCoR Education and Outreach programs serve a wide range of audiences across the state.

Government Labs in NM



Military and National Labs in New Mexico participate in a variety of outreach efforts. Some of them may provide examples to follow while others will include opportunities for partnerships. Check out the links to their outreach pages below.

Air Force Research Lab Los Alamos National Laboratory Sandia National Laboratories

Research Data Support



Effective open source software and data sharing can be incorporated into broader impacts. The Research Data Services provides a variety of services in support of effective research data planning, management, preservation, discovery and use. In addition, the RDS team also provides support for several key research data infrastructure capabilities that are maintained by the Library for use by UNM's research community.

CSTA New Mexico



New Mexico

The Computer Science Teachers Association (CSTA) supports and promotes the teaching of computer science. CSTA provides opportunities for K-12 teachers and their students to better understand computer science and to more successfully prepare themselves to teach and learn. The NM chapter offers a ways to get involved with CS teachers helping to shape CS education in New Mexico.

Albuquerque Museums



Below are links to contact information for local museums. UNM has a Broader Impacts Design partnership with the Explora Science Center, Anthony Salvagno is our direct contact there.

Albuquerque Museum iExplora! Indian Pueblo Cultural Center International Balloon Museum Museum of Nuclear Science & History **NM Natural History Museum**

CAMPUS Resources

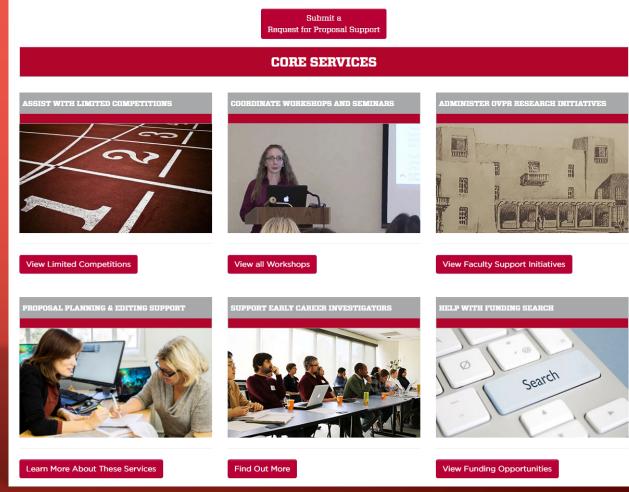
- New Course Development
- K-12 Specialists
- Undergraduate Specialists
- Underrepresented/Minority Groups
 Specialists

http://frdo.unm.edu/

Home Support Initiatives Find Funding Proposal Support Limited Comps Broader Impacts Workshops Connect with an FRSO

Our Mission

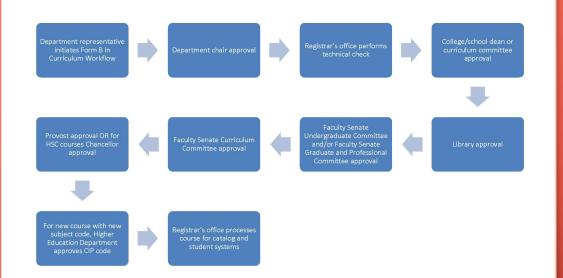
The Faculty Research Development Office (FRDO) works in close collaboration with other units of the Office of the Vice President for Research (OVPR) and with research administration personnel in colleges and departments to enable faculty to obtain external funding. FRDO also helps to implement campus research initiatives.



Request support from the Faculty Research Development Network by clicking this link.

Curriculum Workflow Process

Form B - New Course Request. Request new undergraduate and graduate courses



NEW COURSE DEVELOPMENT

- UNM Curriculum Forms & Resources -<u>https://registrar.unm.edu/faculty--staff-</u> <u>resources/index.html</u>
- Head of your department
 - Departmental letters are required for NSF CAREER proposals
- Associate Provost for Curriculum & Assessment
 - Pamela Cheek
- Center for Teaching and Learning -<u>http://ctl.unm.edu/</u>
- Graduate Interdisciplinary Studies



K-12 SPECIALISTS

- NM STEM-H Center

 Karen Kinsman (Director)
 http://nmstemh.org/
- NM MESA
 - <u>Kim Scheerer (</u>UNM Contact) http://www.nmmesa.org/
- Engineering Student Success Center

 <u>Elsa Castillo (Asso. Director)</u>
 <u>https://ess.unm.edu/index.html</u>
- ABQ Math Teachers' Circle

 Michael Nakamaye (UNM Prof.)
 http://www.unm.edu/~mathtc/ind
 ex.php

UNDERGRADUATE SPECIALISTS

- STEM Collaborative Center
 - <u>Tim Schroeder</u> (Director) <u>https://stem.unm.edu/</u>
- STEM University <u>https://stemuniversity.unm.edu/</u>
- Engineering Student Success Center

 <u>Steve Peralta (Director)</u>
 <u>https://ess.unm.edu/index.html</u>



UNDERREPRESENTED/MINORITY GROUPS SPECIALISTS

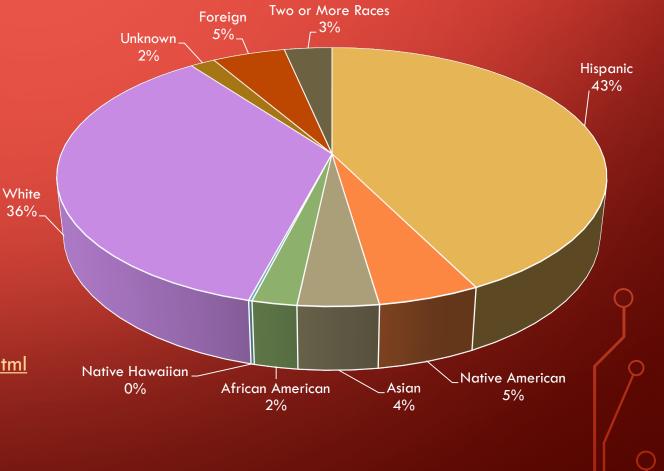
- Student Support Services http://ssstrio.unm.edu/
- Ronald E. McNair Scholars Program

 -Ricardo Romero (Program Specialist)
 <u>https://mcnair.unm.edu/</u>
- Project for New Mexico Graduates of Color <u>http://pnmgc.unm.edu/</u>
- El Centro de la Raza

 Rosa Isela Cervantes (Director)
 <u>https://elcentro.unm.edu/</u>
- Native Americans in STEM (NASTEM)

 Douglas Williams (Program Coordinator)

 https://ess.unm.edu/ess-programs/nastem/index.html
- African American Student Services
 W. Scott Carreathers (Director)
 http://afro.unm.edu/



UNM Spring 2018 Total Enrollment by Ethnicity*

*http://oia.unm.edu/facts-and-figures/documents/spring-2018-official-enrollment-report.pdf

MAIN BROADER IMPACTS TAKE AWAYS



- Make it meaningful and applicable.
- Try to incorporate it into your long-term personal goals.
- You're not alone.

QUESTIONS?

FACULTY RESEARCH DEVELOPMENT NETWORK DIRECTORY

FACULTY RESEARCH DEVELOPMENT OFFICE STAFF

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elendrez@unm.edu 7-0700 for Research

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Graphic Design Graduate Assistant Email: hosseingoudarzi@unm.edu

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COLLEGE EMBEDDED FACULTY SUPPORT TEAM

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Faculty Research Support Officer	Faculty Research Support Officer	Faculty Research Support Officer	Sr. Contract & Grant Administrator
Email: vsarra@unm.edu	Email: jekavka@unm.edu	Email: iroeder@unm.edu	Email: cmarquez24@unm.edu
Phone: (505) 277-1373	Phone: (505) 277-5508	Phone: (505) 277-5758	Phone: (505) 277-6797
College of Arts & Sciences Research	College of Arts & Sciences Research	School of Engineering Research	College of Education Research
Mary Woodruff Contract & Grant Administrator	Elizabeth Nocella Sr. Contract & Grant Administrator		

Email: mwoodr01@unm.edu Phone: (505) 277-0071 School of Architecture+Planning Research

Email: enocella@unm.edu Phone: (505) 277-2218 College of Fine Arts Research

REALISTICALLY ESTABLISHING YOUR BROADER IMPACT December 11, 2018

STEPHANIE TOFIGHI (sctofighi@unm.edu) FACULTY RESEARCH DEVELOPMENT OFFICE

AGENDA

How to Plan Realistically

On Campus BI Example: STEM Collaborative Center

Off Campus BI Example: Explora Science Museum

Identifying your Impact Capacity and Assets

HOW TO PLAN REALISTICALLY...

- 1.Follow the Solicitation
- 2.Identify a Target Audience
 3.Develop Appropriate Partnerships
 4.Set a Goal for that Audience
 5.Budget Accordingly
- 6.Include an Evaluation Plan



IDENTIFYING A TARGET AUDIENCE



- Realistically applicable to your proposed project goals
- Fits your personality and qualifications
- Effectively accounts for time, budget, and people constraints



DEVELOP APPROPRIATE PARTNERSHIPS

- <u>Faculty Research Development</u>
 <u>Office Broader Impacts Page</u>
- <u>STEM NM Ecosystem</u>

Office of Community Engagement
 Learning and Research

SETTING A GOAL FOR YOUR TARGET AUDIENCE

- <u>Remember to include</u> your BI partners in this discussion to incorporate their goals
- Timeline to the Future
- How many people, industries, government agencies, etc. will be affected?
- Do you need to include <u>learning</u> <u>standards</u>?



BUDGET RESOURCES ACCORDINGLY

MONEY & GOODS

- Is it included in the proposed budget?
- Is it participant support?
- Is it unfunded collaboration?
- Are you using resources already available at your home or collaborative institution?
- How much will an evaluator cost?

PEOPLE

- Do you have enough people?
- Are they qualified to conduct the proposed activities?
- Do you need to hire a consultant?
- Do you have the right contacts?
- How do you start the conversation to develop a broader impacts relationship?

TIME

- How long will your broader impact take?
- Does it need to happen during a certain time to meet the goals?
- Do you or your target audience need to travel?
- Is this feasible to both your schedules?

Request support from the Faculty Research Development Network by clicking this link.

EVALUATOR OPTIONS

INTERNAL OPTIONS

- Institute of Social Research
- Cradle to Career Policy Institute
- Develop your own <u>Evaluation Plan</u>
- FRDO Website <u>Resources</u>

EXTERNAL OPTIONS

- <u>New Mexico Evaluators</u>
- Professional Evaluator
 - Lynn Nordstrom

ON CAMPUS BI EXAMPLE: STEM COLLABORATIVE CENTER

- Director: Tim Schroeder, timschroeder@unm.edu
- Assistant Director: Cameron Goble, <u>camerong@unm.edu</u>



iexplora!

Ideas You Can Touch

Ideas que puedes tocar

OFF CAMPUS BI EXAMPLE: ¡EXPLORA! SCIENCE MUSEUM

 Broader Impacts Design Contact: Anthony Salvagno, <u>asalvagno@explora.us</u>

IDENTIFYING YOUR IMPACT CAPACITY AND ASSETS

MAIN BROADER IMPACTS TAKE AWAYS



- Make it meaningful and applicable.
- Try to incorporate it into your long-term personal goals.
- You're not alone.

QUESTIONS?

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Email: enocella@unm.edu Phone: (505) 277-2218 College of Fine Arts Research



SEE YOU NEXT YEAR!

January 15, 2019

Building Your Dream Budget

Developing your Dream NSF CAREER Budget

January 15, 2019

NSF CAREER Cost Guidelines

- Total Costs (TC) = Direct (DC) + Indirect (IC)
- UNM Indirect Cost Rate = 51.5%
 - Excludes tuition, participant support, & equipment
- \$400,000 TC minimum for 5-year duration
 - Exceptions include:
 - Directorate of Biology (BIO) \$500,000 TC minimum
 - Directorate of Engineering (ENG) \$500,000 TC minimum
 - Office of Polar Programs (OPP) \$500,000 TC minimum

NSF Proposal Requirements



Annual budget for lead institution and subawards



Budget justification (5 page maximum for each institution) Lead institution Each subaward

CAREER Specific Restrictions

PI salary

NSF restricts faculty PI salary to 2 months for all NSF funding

- Other Senior Personnel
- Postdocs, Grad Students, Undergrads, High School Students
- Subawards V
- Education and/or Outreach Activities
- External Evaluators
- Foreign Travel to Work with Collaborates
 - For PI + U.S. participants

Primary support for a CAREER award <u>must</u> be for the PI and his/her research efforts.

Educational Programs



Field Trips



Semester Programs



Camps

Budgeting to Work with Explora



Youth Intern Program



Educator Workshops



Outreach Programs

What will your research plan accomplish in 5 years and how much will it cost?

- People
 - Salary
 - ► Fringe
 - Tuition
- Equipment (>\$5000)
- Materials and Supplies
 - Computers and/or Wearables
 - Consumables
- Evaluations

- Travel
 - Collaborate
 - Field work
 - Conferences
 - Workshops
- Outreach and Education
 - Materials and Supplies
 - PI and team travel
 - Participant Support

What resources are available to you?

- Administrative Support
 - Budget development
 - Grant management for post award
- Equipment to borrow or rent?
- Available facilities on and off campus
- Outreach collaboration = shared evaluation
- Other financial support, i.e. start-up \$, internal awards, other external funds
- Department paid RA or TA
- UNM Student Services Organizations provide funding for certain underrepresented student groups

What to do next?

- Play around with the budget template provided
- Make an appointment to visit with your department grant support personnel
 - Find more at <u>http://frdo.unm.edu/dept_frdo_support</u>
- Start getting equipment quotes and/or facility use rates
- Develop hypothetical travel plans
- Start finding out what supplies, travel, and participant support your education and outreach efforts will need
- Develop your evaluation plan or get quotes from external evaluators
 - Keep in mind that the NSF says, "Meaningful assessment and evaluation of NSF funded projects should be based on appropriate metrics... If the size of the activity is limited, evaluation of that activity in isolation is not likely to be meaningful. Thus, assessing the effectiveness of these activities may best be done at a higher, more aggregated, level than the individual project."

NSF Administrative Documents

January 30, 2019

NSF Proposal Checklist

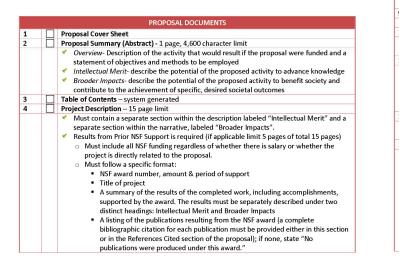
- 11 required documents for all NSF proposals plus 2 that may be required depending on proposal
 - Post doc Mentoring Plan
 - Supplementary Docs (Letters of collaboration)
- CAREER has 12 required documents
 - 2 pg. Department support letter uploaded as 1st Supplementary Doc

National Science Foundation (NSF) Checklist

PLEASE NOTE: THIS CHECKLIST DOES NOT REPLACE THE SOLICITATION. Please review program specific solicitation for compliance and completeness

DU	E DATE AND AWARD INFORMATION
Internal deadline*	OSP: 5 business days prior to sponsor or lead institution deadline
Award notification	At least 6 months after sponsor deadline
	artners (subawards or consultants), deadlines will need to be e necessary documentation for these partners.

	FORMATTING INSTRUCTIONS
Document format	PDF only
Font type/size	 Arial, Courier New, Palatino Linotype - 10 or larger; Times New Roman - 11 or larger; Computer Modern family of fonts – 11 or larger
Line spacing	 No more than 6 lines of type within a vertical space of 1 inch Only single column formatting
Page size	8.5" x 11"
Margins	1.0" all sides
Grant Proposal Guide	https://www.nsf.gov/pubs/policydocs/pappg19 1/index.jsp



National Science Foundation (NSF) Checklist

PLEASE NOTE: THIS CHECKLIST DOES NOT REPLACE THE SOLICITATION. Please review program specific solicitation for compliance and completeness

		 Evidence of research products and their availability, including, but not limited to:
		data, publications, samples, physical collections, software, and models, as
		described in any Data Management Plan; and
		 If the proposal is for renewed support, a description of the relation of the second to description of the second se
-		completed work to the proposed work.
5		References Cited – no page limit Include names of all authors (no et al.), article & journal title, book title, volume number,
		page numbers & year of publication If no references, a statement to that effect should be uploaded
5		Biosketch(es) – 2 page limit per investigator
,		 Required for all senior project personnel
		 Must follow a specific format:
		 Professional Preparation – including location of undergrad, grad and postdoc
		institution
		 Appointments
		 Products (10 total- 5 products closely related and 5 other significant products)
		 Synergistic Activities (Up to 5 examples that show broader impact)
7		Budget - Each proposal must contain a budget for each year of support requested.
7a	H	Budget Justification – 5 page budget justification limit for the prime and each sub award.
3	H	Current and Pending Support – **no page limit
-		 Must include the proposed project as pending
)		Facilities, Equipment, and Other Resources – no page limit
		If no facilities, a statement to that effect should be uploaded
LO		Data Management Plan – 2 page limit
		Describe how the proposal will conform to NSF policy on the dissemination and sharing of
		research results.
11		Post Doc Mentoring Plan – 1 page limit
		 Required if funding is requested to support postdoctoral researchers
		Describe the mentoring that will be provided to all postdoctoral researchers supported by
		the project, irrespective of whether they reside at the submitting organization, any
		subawardee organization, or at any organization participating in a simultaneously
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12		Supplementary Documentation (If applicable)
		 Collaboration letters must only state the intent to collaborate and not contain
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L3		Collaborators and Other Affiliations Information
		 Collaborations and other affiliation information must be provided, separately, on the NSF
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		organizational affiliation if known.
		 Ph.D. Advisor. All persons with whom the individual has had an association as a
		Ph.D. advisor. (special template)

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5		References Cited – no page limit
		 Include names of all authors (no et al.), article & journal title, book title, volume number, page numbers & year of publication
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6		Biosketch(es) – 2 page limit per investigator
		Required for all senior project personnel
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- Biographical Sketch
 - 2 pg. abbreviated CV
 - Must follow NSF format
 - Professional Preparation (institute, location, major, degree, year)
 - Appointments (in reverse chronological order)
 - Products (10 total = 5 most relevant + 5 more)
 - Synergistic Activities (5 examples)
 - Change to Synergistic Activities this year
 - Up to 5 individual examples that demonstrate the "broader impact of the individual's professional and scholarly activities that focuses on the integration and transfer of knowledge as well as its creation".
 - Do not list instances of your example, i.e. "Reviewed articles for journals"
 - Journal A
 - Journal B
 - Journal C
 - Instead, include details about five individual examples, i.e. "Organized the 2018 UNM/PNM Math Contest which engaged 7th-12th grade students and teachers across the state of New Mexico. The event was intended to help improve student math scores thus making them more competitive for college scholarships."

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		completed work to the proposed work.
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6		Biosketch(es) – 2 page limit per investigator
		 Required for all senior project personnel
		 Must follow a specific format:
		•
		 Professional Preparation – including location of undergrad, grad and postdoc
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7a 8	H	Current and Pending Support **no page limit
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-	_	 Must include the proposed project as pending
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- Biographical Sketch
- Current & Pending Support
 - Similar to NIH JIT Other Support
 - Submitted with the proposal
 - Must include proposal being submitted as pending
 - Current support from NSF cannot exceed 2 month of your time
 - If current NSF support = 2 months, include the line that if this proposal is funded, you will adjust the amount of time on other projects accordingly in your project description or budget justification

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	-	 Evidence of accords and device and their contribution, including the test instand to:
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- Biographical Sketch
- Current & Pending Support
- Collaborators & Other Affiliates
 - Not seen by reviewers but is used by NSF to identify Cols of potential review panel
 - Follow NSF Template
 - If more than 10 senior personnel are on a proposal upload to Fastlane as a csv file

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		Ph.D. advisor. (special template)

- Biographical Sketch
- Current & Pending Support
- Collaborators & Other Affiliates
- Facilities, Equipment, and Other Resources
 - Follow NSF Template
 - Great place to expand on resources already available to you both at home institution and other research locations not included in budget
 - No page limit
 - Especially effective since Collaborator's letters are so minimal now

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	 Ph.D. Advisor. All persons with whom the individual has had an association as a
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- Biographical Sketch
- Current & Pending Support
- Collaborators & Other Affiliates
- Facilities, Equipment, and Other Resources
- Data Management Plan
 - 2 pg. limit
 - Description of how proposal will support NSF dissemination and data sharing policies
 - Include sections from NSF template
 - Type of data produced and format of files
 - How it will be accessed, shared, and archived

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- Biographical Sketch
- Current & Pending Support
- Collaborators & Other Affiliates
- Facilities, Equipment, and Other Resources
- Data Management Plan
- Department Support Letter
 - 2 pg. limit
 - Must come from Dept. Chair
 - Confirms PI's eligibility and department's support
 - Uploaded as 1st Supplementary Document in the CAREER proposal
 - More discussion to come during March 20th meeting

Post Doc Mentoring Plan

Required if proposed funding will directly support a postdoc researcher

1 page limit

 Description of mentoring postdoc will receive through research project participation

NSF template and sample available at <u>http://frdo.unm.edu/?q=proposal_support</u>

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Letters of Collaboration

- Upload as Supplementary Documents after
 Department Support
 Letter
- Confirmation of named individuals or groups within proposal not in the budget
- *Must* follow this format

[Organization Letterhead]

[Date]

To Whom It May Concern:

If the proposal submitted by Dr. [PI's Name] entitled "CAREER:[Title of Proposal]" is selected for funding by NSF, it is my intent to collaborate and/or commit resources as detailed in the Project Description or the Facilities, Equipment or Other Resources section of the proposal.

[Signature]

[Collaborator Name]

[Organization]

Campus Resources



Data Management Plan

Research Data Services Center for Advanced Research Computing



Facilities, Equipment, and Other Resources

Applicable Start-up Details Lab and Office equipment and resources Department or College specific resources Ask <u>FRSOs or Department Administrators</u> for help

Next Steps for CAREER Cohort

Writers Workshop Peer Review Format	
Designing your Education Plan	
Develop (What makes the most sense for you?)	
Build an Appropriate Evaluation Plan	
Integrate it with your Research Plan	
Integrate it with Goals of Dept. and UNM in the Letter	
from your Chair	
Developing your Broader Impacts Plan	
Identifying the Right BI for you as the PI	
Building a Plan within your Budget	
Bring it Together - Best Introduction Yet	
Grab the Reviewers Attention	
Prepare them to be Amazed	

- Feb 13 Guests Susan Atlas, Rob Miller, and Elizabeth Dirk to contribute to discussion about CAREER research and education integration
- Feb 27 and Mar 6 Peer review discussion of drafts of Education Plans
- Mar 20 Guests Steve Cabaniss and Abhaya Datye to contribute to discussion about Department Support Letter
- Apr 10 and 24 Peer review discussion of drafts of Broader Impacts Plans
- May 8 and 22 Peer review discussion of drafts of Introduction

Peer Review Assignments

- NSF Review Panel Format
 - 1st Reviewer Leads Discussion of one draft
 - 2nd Reviewer Speaks Next
 - 3rd Reviewer Adds Anything Not Already Discussed
 - Process will repeat for each draft of the week with reviewers holding different positions
- 3-4 drafts will be reviewed each "Peer Review Discussion" meeting depending on the week
- Meeting draft submitters will NOT be discussion leaders but they will receive all drafts to read and are encouraged to contribute to the discussion

Draft Schedule

February 18

 1st set of Education Plan drafts due & Reviewers assigned

February 25

 2nd set of Education Plan drafts due & Reviewers assigned

April 1

1st set of Broader Impacts Plan drafts due & Reviewers assigned

April 15

 2nd set of Broader Impacts Plan drafts due & Reviewers assigned

April 29

1st set of Introduction drafts due & Reviewers assigned

May 13

 2nd set of Introduction drafts due & Reviewers assigned

Questions or Comments?