

Grant Writing Presentation for Graduate Students

September 12, 2011

Jason Hale

Mickey McLaurin

Agenda

- Introduction/Overview of Grants at UM
- What is a grant?
- Searching for Funding Sources
- Grant writing
 - UM Resources
 - Points to look for
 - Tailoring your proposal
- GSC Research Grants Info
- Discipline Specific Tips

Introduction

- The Office of Research and Sponsored Programs (ORSP)
 - Sponsored Programs Administration deals with grants and contracts made to the University to perform research and other activities
 - There are also grants made directly to individuals
 - Different RECIPIENT (the University vs. the Individual)
 - Many grants available to Graduate Students will be made DIRECTLY to the INDIVIDUAL
 - However, SOME opportunities will involve awards made to the INSTITUTION (UM)
 - In these cases, ORSP MUST be involved in the grant process
- If you have a question, please come to us:
 - <https://www.research.olemiss.edu/>

What is a grant?

- Grants (as opposed to Contracts vs. Fellowships)
 - Funding mechanism provided by a sponsor to support research or other activities
 - Specific work usually proposed by investigator and approved/accepted by sponsor
(Your idea that someone else is funding)
 - Specific period of time for start and completion
 - Specific budget
 - Primary investigator (co-investigators; senior personnel)
 - Reporting requirements to the sponsor
- Why get a grant?
 - To fund needed expenses
 - Travel
 - Equipment
 - Other costs related to research or other activities
- If you receive a grant DIRECTLY from a sponsor:
 - BE AWARE of what you are agreeing to
 - There may be TAX implications, etc.

Searching for funding sources

- Types of funding sources
 - Foundations
 - Government (state and Federal)
 - Organizations
- Web resources
- Services the University subscribes to
 - COS
 - A funding and expertise database/tool
 - Can be accessed from any on-campus computer, and you can set up an account for remote access
 - Provides funding opportunities from Federal, State, Private, Foundation and International Sources
 - <http://fundingopps.cos.com/>
 - Research Development and Grant Writing News
 - Newsletter located on the ORSP web site
 - Helpful articles on many grant writing topics
 - <https://www.research.olemiss.edu/rdgwn/>

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Mailing Address

Contact Information

Qualifications

M.S., University of Mississippi, Computer Science, 1993.

Other Expertise

Industrial Relevance

Keywords

COS Keywords:

Computer and Information Sciences.

Additional Terms:

Computer Science, Computers.

Publications

- A. Vinjamur, S. Conlon, S. LUKOSE, T. McCready, and J. HALE (2005) Automatic Extraction and Generation of XML Documents from Financial Reports, *In Proceedings of the America's Conference on Information Systems*, 3398-3405

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Search Name	Run Search Now	Edit	Delete	Share
Introductory Search	Run	Edit	Delete	Share

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- An Introductory Search will be created based on your profile
- You can edit, delete, or run additional searches based on your preferences

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To **Edit Your Search**, please modify your search criteria or add new search criteria then on the results page, please choose "Save Search"

Clear Fields

Do the Search

<input type="radio"/> Match Any Field <input checked="" type="radio"/> Match All Fields													
All Fields: (e.g., genom* or genetic*)	<input type="text"/>												
Sponsor: (e.g., "National Institutes of Health" or NIH)	<input type="text"/>												
Title: (e.g., medical w/3 fellowship)	<input type="text"/>												
Abstract: (e.g., "economic development")	<input type="text"/>												
Deadline:	<table><tr><td></td><td style="text-align: center;">Month</td><td style="text-align: center;">Day</td><td style="text-align: center;">Year</td></tr><tr><td><input type="button" value="on or after"/></td><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td></tr><tr><td><input type="button" value="on or before"/></td><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td></tr></table> <p>Include: <input type="checkbox"/> <u>Continuous or undefined deadlines</u></p>		Month	Day	Year	<input type="button" value="on or after"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="on or before"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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Internal Coordination:	<input type="checkbox"/> Internal Coordination Required												
Amount: (e.g., 25000)	<input type="text"/> <input type="text"/> Include: <input type="checkbox"/> <u>Unspecified</u>												
Keywords:	<input checked="" type="checkbox"/> Computer and Information Sciences <input checked="" type="checkbox"/> Educational Administration and Policy Combine with: <input checked="" type="radio"/> Or <input type="radio"/> And Explode: <input checked="" type="checkbox"/> add keywords clear												

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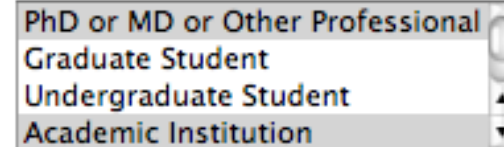
Funding Type:

Equipment or Materials Acquisition or Facility Use
Facility Construction or Operation
Publishing or Editorial

- Publishing or Editorial
- Facility Construction and Operation
- Equipment or Materials Acquisition or Facility Use
- Artistic Pursuit
- Dissertation or Thesis
- Contract or Tender
- Meeting or Conference or Seminar
- Visiting Personnel
- Travel
- Training or Scholarship or Fellowship
- Prize or Award
- Postdoctoral Award
- Research
- Program or Curriculum Development or Provision

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Requirements:



PhD or MD or Other Professional
Graduate Student
Undergraduate Student
Academic Institution

- PhD or MD or Other Professional
- Graduate Student
- Undergraduate Student
- Academic Institution
- Government
- Nonprofit
- Small Business
- Minority
- Women
- Persons with Disabilities
- Commercial

Who Opportunities are For

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	R	▼Grant Title	▼Sponsor	▼Deadline	▼Amount
1.	**	<input type="checkbox"/> Interface Between Computer Science and Economics & Social Sciences (ICES) - NSF 11-584	 National Science Foundation (NSF) 	Dec 06, 2011 	\$1,000,000 
2.	**	<input type="checkbox"/> Fred Turner Award for Outstanding Service to NASPA	 NASPA - Student Affairs Administrators in Higher Education 	Nov 01, 2011 	see record
3.	**	<input type="checkbox"/> Education Program	 San Francisco Foundation 	Nov 07, 2011 	see record 
4.	**	<input type="checkbox"/> Magna Awards	 National School Board Association (NSBA) American School Board Journal 	Oct 31, 2011 	see record 
5.	*	<input type="checkbox"/> Sustaining Cultural Heritage Collections (SCHC) - 20111201-PF	 National Foundation for the Arts and the Humanities National Endowment for the Humanities (NEH) 	Dec 01, 2011 	\$400,000 
6.	*	<input type="checkbox"/> Satellite Calibration Interconsistency Studies - NNH11ZDA001N-SCIS	 National Aeronautics and Space Administration (NASA) Research Opportunities in Space and Earth Sciences (ROSES) 	Sep 22, 2011 	\$6,000,000 
7.	*	<input type="checkbox"/> Education Grants	 Dodge Foundation, Inc., Geraldine R. 	Oct 15, 2011 	see record
8.	*	<input type="checkbox"/> ERDC BAA - Software Engineering and Informatics (ITL-2)	 United States Department of Defense (DOD) Department of the Army U.S. Army Corps of Engineers (USACE) 	continuous 	see record

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Title	Interface Between Computer Science and Economics & Social Sciences (ICES) - NSF 11-584		URL for more info	http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503549		
Sponsor	National Science Foundation (NSF)		Sponsor Type	Federal, U.S.		
Upper Amount	\$1,000,000		Amount Note	Proposers are invited to submit proposals in two project classes, which are defined as follows: Small Projects - up to \$400,000 total budget with durations up to three years; and Large Projects - \$400,001 to \$1,000,000 total budget with durations up to four years. Estimated program budget, number of awards and average award size/duration are subject to the availability of funds. The sponsoring NSF divisions anticipate a program budget of \$6.5 million. The sponsoring NSF divisions expect to support approximately 2 Large 4-year awards of up to \$1 million each and approximately 10 Small 3-year awards of up to \$400,000 each. The anticipated type of award is Standard Grant or Continuing Grant.		
Activity Location	United States		Citizenship or Residency	United States		
Upcoming Deadlines	Date	Certainty	Type	Mandatory	Invite Only?	Note
	Dec 06, 2011	Confirmed	Full Proposal	Yes	No	The submission window is November 21, 2011, to December 6, 2011.
Requirements	Academic Institution Nonprofit Ph.D./M.D./Other Professional					

The three divisions of the Directorate for Computer and Information Science and Engineering (CISE) - the Division of Computing and Communication Foundations (CCF), the Division of Computer and Network Systems (CNS), and the Division

Sponsor Funding Synopsis (NSF style)

Division of Computing and Communication Foundations

Interface between Computer Science and Economics & Social Sciences (ICES)

CONTACTS

Name	Email	Phone	Room
Bala Kalyanasundaram	bkalyana@nsf.gov	(703) 292-8910	1115
Nancy A. Lutz	nlutz@nsf.gov	(703) 292-7280	995
Sven Koenig	skoenig@nsf.gov	(703) 292-7242	1125
J. Bryan Lyles	jlyles@nsf.gov	(703) 292-8950	1175

PROGRAM GUIDELINES

Solicitation [11-584](#)

DUE DATES

Full Proposal Window: November 21, 2011 - December 6, 2011

SYNOPSIS

The three divisions of CISE and the SES division of SBE seek interdisciplinary research and education projects that develop new knowledge at the Interface between Computer Science and Economics & Social Sciences. Projects should advance knowledge on both sides of the interface. Projects that use known techniques and results from Computer Science or Economics & Social Sciences to advance only one field (either CS or Econ/SS) are not of interest to the program.

Proposers are invited to submit proposals in two project classes, which are defined as follows:

- Small Projects - up to \$400,000 total budget with durations up to three years; and
- Large Projects - \$400,001 to \$1,000,000 total budget with durations up to four years.

A more complete description of the two project classes can be found in section *II. Program Description* of this solicitation.

Interface between Computer Science and Economics & Social Sciences (ICES)

PROGRAM SOLICITATION **NSF 11-584**

REPLACES DOCUMENT(S): **NSF 10-583**



National Science Foundation

Directorate for Computer & Information Science & Engineering
Division of Computing and Communication Foundations
Division of Computer and Network Systems
Division of Information & Intelligent Systems

Directorate for Social, Behavioral & Economic Sciences
Division of Social and Economic Sciences

Submission Window Date(s) (due by 5 p.m. proposer's local time):

November 21, 2011 - December 06, 2011

IMPORTANT INFORMATION AND REVISION NOTES

A revised version of the *NSF Proposal & Award Policies & Procedures Guide (PAPPG)*, [NSF 11-1](#) issued on October 1, 2010 and is effective for proposals submitted, or due, on or after January 18, 2011. Please be advised that the guidelines contained in [NSF 11-1](#) apply to proposals submitted in response to this funding opportunity.

Cost Sharing: The PAPPG has been revised to implement the National Science Board's recommendations regarding cost sharing. Inclusion of voluntary committed cost sharing is prohibited. In order to assess the scope of the project, all organizational resources necessary for the project must be described in the Facilities, Equipment and Other Resources section of the proposal. The descriptive

Full
Solicitation
(NSF style)

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Volume 1, Issue 12: August 15, 2011

Volume 1, Issue 1

In this issue—September 15, 2010

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- [Unsolicited Proposals: What Are They And Who Accepts Them](#)
- [Writing the Competitive Research Center Proposal: Submitting for the Right Reasons with the Right PI](#)
- [The Strategic Role of the RFP](#)
- [How To Find Funding Opportunities at NSF](#)
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[About Academic Research Funding Strategies](#)

is the 12th monthly issue of *Research Development & Grant Writing News*. Our second year of publication begins with the September 15 issue (Volume 2, Issue 1).

issues of the newsletter, **containing over 84 articles on research development topics**, can be ordered at a subscriber discount from our website.

RFS offers proposal writing workshops and grant agencies retreats for new faculty based on all published articles and specifically designed to meet your research development needs.

Research Development & Grant Writing News

Grad Students and Postdocs:

Preparing for Success as an Independent Researcher ([Back to Page 1](#))

Your time as a graduate student or postdoc is not only the time to learn how to do research but also an excellent time to learn how to pursue funding to support your research. Unfortunately, while most graduate programs make explicit efforts to teach students how to perform research, few of them teach students how to identify funding sources and write competitive proposals. This is starting to change as universities begin to offer elective courses and workshops in proposal writing for graduate students and postdocs. As a graduate student or postdoctoral fellow who plans to pursue a career in academic research, it will probably be up to you to seek out and take advantage of the expertise available at your university related to winning funding for research in your field.

First, be sure to take any courses or workshops in proposal writing that might be offered at your institution. Second, and even more importantly, seek out faculty in your discipline who have been successful at winning research funding. Schedule a time to meet with each faculty member you've identified, and ask them about their experiences in competing for funding. Most faculty are enthusiastic mentors and enjoy talking about their own experiences, so listen well and take good notes (you will need to refer to them again in several years' time). Examples of the kinds of questions you should ask are: What agencies and institutions fund research in our field? Where have you been most successful in winning funding? Within those agencies, which programs have funded your research? Where do you see the interests of these funders going in the future? Have you been a reviewer for these agencies? If so, are there common mistakes that you see in proposals that you've reviewed? How did you get your first few grants? What advice would you give a new faculty member pursuing his or her first grant? What can I do now to best position myself to be competitive for funding when I start a faculty position? Would it be possible for me to read one of your successful proposals?

If you are fortunate, your graduate or postdoc advisor will be one of those well-funded faculty. This will give you an excellent opportunity to learn from an expert how to write competitive research proposals. Let your advisor know that you would like to learn as much as possible about the process of competing for research funding. Talk to your advisor at length

Research & Grant Writing News

Upcoming (2010-2011) Fellowship Funding Opportunities

[PostDoc Resources Posted at MIT](#)

[*On Being a Scientist: A Guide to Responsible Conduct in Research: Third Edition*](#)

Authors: Committee on Science, Engineering, and Public Policy, National Academy of Sciences, National Academy of Engineering, and Institute of Medicine.

[NSF Graduate Research Fellowship Program](#)

Document History: Posted: August 20, 2010. **Replaces:** [NSF09603](#).

The purpose of the NSF Graduate Research Fellowship Program (GRFP) is to help ensure the vitality and diversity of the scientific and engineering workforce in the United States. The program recognizes and supports outstanding graduate students who are pursuing research-based master's and doctoral degrees in fields within NSF's mission. The GRFP provides three years of support for the graduate education of individuals who have demonstrated their potential for significant achievements in science and engineering research.

[The National Defense Science and Engineering Graduate \(NDSEG\)](#)

The 2011 application will become available in September 2010.

As a means of increasing the number of U.S. citizens and nationals trained in science and engineering disciplines of military importance, the Department of Defense (DoD) plans to **award approximately 200 new three-year graduate fellowships in April 2011**, subject to the availability of funds. The DoD will offer these fellowships to individuals who have demonstrated ability and special aptitude for advanced training in science and engineering.

Searching for funding sources (Continued)

- Catalog of Federal Domestic Assistance
 - www.cfda.gov
 - Listing of all federal government grant programs
- The Office of Research & Sponsored Programs
- Chronicle of Higher Education
 - Advertisements
- PROFESSIONAL ORGANIZATIONS
 - Professional Organizations in your field may be the MOST USEFUL resource for Graduate Students seeking grant opportunities
 - Will likely compile information on grant opportunities that are specific to the discipline
 - The Professional Organization ITSELF may fund grant opportunities for Graduate Students in the discipline

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Latest Funding Opportunities

[NSF Science, Engineering and Education for Sustainability \(SEES\) Fellows](#)

[Nuclear Education Curricula Development Grant, FY2012](#)

[NRC Nuclear Faculty Development Grant, FY2012](#)

[The Bill & Melinda Gates Foundation — Grand Challenges Explorations Round 8](#)

[National Endowment for the Humanities Summer Stipends](#)

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Funding Opportunity

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News items for funding opportunities.

NSF Science, Engineering and Education for Sustainability (SEES) Fellows

SEES Fellows will partner across disciplines on sustainability challenges reflecting the fellows' own research interests. The fellows will pursue discoveries that inform environmental, energy, and societal sustainability, while developing the professional skills to become part of a workforce that can address these challenges.

Key Dates: Nov 28, Dec 5

[Read more](#)

Nuclear Education Curricula Development Grant, FY2012

U.S. Nuclear Regulatory Commission Funding Opportunity

Nuclear Education Curricula Development Grant, FY2012

These grants are to support the development of courses, course modules, studies, training, and curricula pertaining to nuclear safety, nuclear security, & nuclear environmental protection.

[Read more](#)

NRC Nuclear Faculty Development Grant, FY2012

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NSF Science, Engineering and Education for Sustainability (SEES) Fellows

SEES Fellows will partner across disciplines on sustainability challenges reflecting the fellows' own research interests. The fellows will focus on environmental, energy, and societal sustainability, while developing the professional skills to become part of a workforce that is

Key Dates: Nov 28, Dec 5

Nov. 28, 2011	Notify vcrsp@olemiss.edu of intention to apply (courtesy)
Dec. 5, 2011	Proposal due to NSF
~June 5, 2012	NSF target date for notification of funding decision
~June 30, 2012	Applicant must accept or decline within 30 days of award notice

Funding: \$88K/year (~\$68K salary + benefits) for 3 years, + \$20K/year research expenses

Cost Sharing: Prohibited

Limitations: UM/ORSP may submit multiple proposals, each for a distinct fellow.

Eligibility: Fellows must be US citizens, nationals, or permanent residents by 12/5/11, who will have earned doctorate no later than

UM Today

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Research



Workshop: Writing Winning GAANN Proposals, Part 1

If your departmental discipline is in an area of national need, an infusion of high paying graduate fellowships could strengthen the program

[Full details](#)

vcrsp@olemiss.edu - UMToday #6977 (Added on 09/06/2011)

MS Water Resources Research Institute 2012 RFP

The Mississippi Water Resources Research Institute (MWRRI) has released its 2012 Request for Proposals.

[Full details](#)

research@olemiss.edu - UMToday #6515 (Added on 09/06/2011)

Call for NSF PIRE Preproposals and Reviewers

9/15 is the due date for UM internal pre-proposals and reviewer volunteers for NSF Partnerships for International Research & Education

[Full details](#)

jghale@olemiss.edu - UMToday #6454 (Added on 09/06/2011)

Funding Opp: NSF Sustainability (SEES) Fellows

Science, Engineering, & Education (SEES) Fellows will pursue discoveries that inform environmental, energy, and societal Sustainability.

[Full details](#)

Grant Writing/UM Resources

- The UM Writing Center
 - http://www.olemiss.edu/depts/writing_center/
 - Provides support to grad students who are English Language Learners (ELL)
- ORSP
 - We can help answer questions about the nature of grant opportunities you want to pursue
- The Graduate School
 - Info on potential fellowships and grants available

Grant Writing

- Points to look for
 - Read the application requirements carefully
 - Highlight key requirements and points

program's emphasis is to facilitate investigations that cross traditional disciplinary boundaries and address issues of sustainability through a systems approach, building bridges between academic inquiry, economic growth, and societal needs. The Fellow's proposed investigation should be interdisciplinary and allow him/her to obtain research experience beyond his/her current core disciplinary expertise. Additionally, Fellows are required to develop a

- The nature (focus) of the grant program
 - Make sure your needs match those of the sponsor
 - Appropriateness of the funding source
 - The trick is to find the intersection between what is available and what you want to pursue.
 - Propose your activities in terms of the sponsor's stated interests

Grant Writing (Continued)

- The Summary, Abstract, or Introduction
 - Like an attorney's open argument
 - Write for a “general technical audience”
 - i.e., a researcher or scientist from another field
 - Be careful not to use esoteric terms or acronyms
 - Don't assume too much about what reviewer knows
 - Generally limited to one page
 - Strong open sentence that says **what you will do and what the impact will be**, and **why you**
 - Emphasis key points (bold, underline, italics, etc.)
 - Ask for review/edits from someone (or more than one) outside your discipline
 - Reviewer should, with one reading of your summary, know what you plan to do, and be able to describe that to someone else

Proposal Intro/Summary: Example 1

With the unifying theme of aquatic environmental protection, we propose to create a demographically and professionally diverse pipeline of thought leaders and top-down problem solvers with the skills, experience, and confidence to: 1) recognize big-picture environmental problems; 2) identify critical research questions; 3) assemble, lead, and serve on diverse solution teams; and 4) communicate early and effectively with all stakeholders to ensure adoption of solutions for maximum societal impact. These solutions include commercializing technology, recommending regulations, identifying best practices in protection and remediation, and creating and disseminating environmental information to the public. We have the unique combination of resources to ensure project success: access to a natural test laboratory; rich access to under-represented student populations; multidisciplinary experience in environmental research; public, private, and international partners; and a strong track record of technology commercialization.

Proposal Intro/Summary: Example 2

Intellectual Merit: ¶

This program will create an affordable manufacturing workforce pipeline for high-potential, low-income students emerging from 2-year colleges. Scholarships will be used to recruit and retain 5 cohorts of 5 community college transfers (25 students total) to the university, to study together, eat together, live together, socialize together, work on teams together, practice lean manufacturing techniques, and earn a Bachelor of Science in Mechanical Engineering. Graduates will emerge as highly adaptable manufacturing engineers and managers who are equally at home on an assembly line, in an engineering design room, or in a corporate boardroom. ¶

Grant Writing (Continued)

- The Research Plan or Project Description
 - Follow the basic journalism guidelines
 - Who, What, Where, When, Why and How?
 - Emphasize the strengths of yourself and/or your proposal; make the case that you or your team can make the most impact for the sponsor.
 - Importance of communicating past accomplishments (a proven track record)
 - USE PROPER GRAMMAR AND SPELLING
 - Get someone else to proof read it for correctness, clarity, efficiency, and power
 - Revise and iterate many times, w/ many reviewers

Grant Writing (Continued)

Consider using illustrations, tables, plots, etc. where appropriate to make your point visually

- The Budget

- Give realistic consideration of what cost will actually be to accomplish the work proposed
- Provide realistic cost estimates
- Professional format
- Make sure the costs are eligible/justifiable
 - Allowed by the sponsor for the grant program
 - Actually needed to accomplish the work proposed

GSC Research Grants: Applications

- Applications due 10/22; no late applications accepted
- Each award \leq \$1,000
 - Don't ask for more; if you do, we will return it without review
 - If project costs $>$ \$1,000 then show how other costs will be met
- Eligible costs: www.olemiss.edu/depts/procurement
 - Click on “Spending Policy”
- Examples of Ineligible costs (not exclusive):
 - Childcare; Payment to research participants; Desktop, notebook, or tablet computers; Smart phones; Cameras or Digital Recording Devices
 - Faculty Tech. Development Center (FTDC) in Weir Hall has some of these
- Read and follow instructions carefully; Questions? Ask.

GSC Research Grants: Reviews

- Proposals will be divided into four categories:
 - Physical and Life Sciences
 - Social Sciences
 - Arts and Humanities
 - Engineering
- Each proposal will be reviewed by at least two volunteer faculty members from a related field of study
- Applications will be judged on:
 - Merit of the Application
 - Aims advance knowledge? Novel approach? Well thought-out plan? Sufficient resources for success?
 - Broader Impacts
 - How will project contribute to society?
(Google NSF Broader Impacts)

GSC Research Grants: Reports & Presentations

- 1-2 page mid-term progress report by May 31, 2012
- Must present at Spring 2012 poster session
 - Using template to be provided by ORSP
 - Budget printing costs from GSC grant award
- Encouraged to present research as poster or talk at Mississippi Academy of Sciences Spring 2013 meeting (<http://msacad.org/>)
 - MAS membership, meeting pre-registration, and abstract fees may be reimbursed and budgeted from GSC Grant if paid for by December 2012.