

CAREER Proposals

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CAREER

Faculty Early Career Development Program NSF 08-557

[Find Link on Crosscutting Programs Page](#)

- NSF's most prestigious awards in support of junior faculty exemplifying the role of teacher-scholar
- Enhances and emphasizes the importance of balanced academic careers
- Career development plan to integrate research and education



CAREER

- **ELIGIBILITY:**
 - **As of Directorate Deadline**
 - **Hold doctorate in field supported by NSF**
 - **Be untenured**
 - **Not previously received an NSF PECASE or CAREER award**
 - **Have not competed more than two times in NSF CAREER Program**
 - **As of October 1 of submission year be employed**
 - **In a tenure-track (or equivalent) position at US academic institution or US non-profit, non-degree granting organization**
 - **As an Assistant Professor (or equivalent)**

**ASSOCIATE PROFESSORS WITH or WITHOUT
TENURE ARE NOT ELIGIBLE**



CAREER

- **SIZE**
 - Lower Limit \$400K (total)
 - Upper Limit - non specified
 - BIO Directorate: \$500K (total) minimum
- **DURATION**
 - 5 Years
- **SUPPLEMENTS**
 - Standard NSF supplements (see GPG)
- **PECASE**
 - HONORARY ONLY



CAREER

- **DEPARTMENTAL ENDORSEMENT LETTER:**
(About One Page)
 - Returned without Review if Missing
- **LETTERS OF COMMITMENT/COLLABORATION**
(if needed):
 - Short
 - Describe collaborative efforts
 - Not recommendation/endorsement



CAREER

- **DEADLINES:**
 - **July 22, 2010 for MPS, GEO, SBE, OPP**
 - **July 21, 2010 for ENG**
 - **July 20, 2010 for BIO, CISE, EHR**
- **FASTLANE Submission**
 - **Help desk: 1-800-673-6188**
- **GRANTS.GOV Submission**
 - **Grants.gov User Support: 1-800-518-4826**

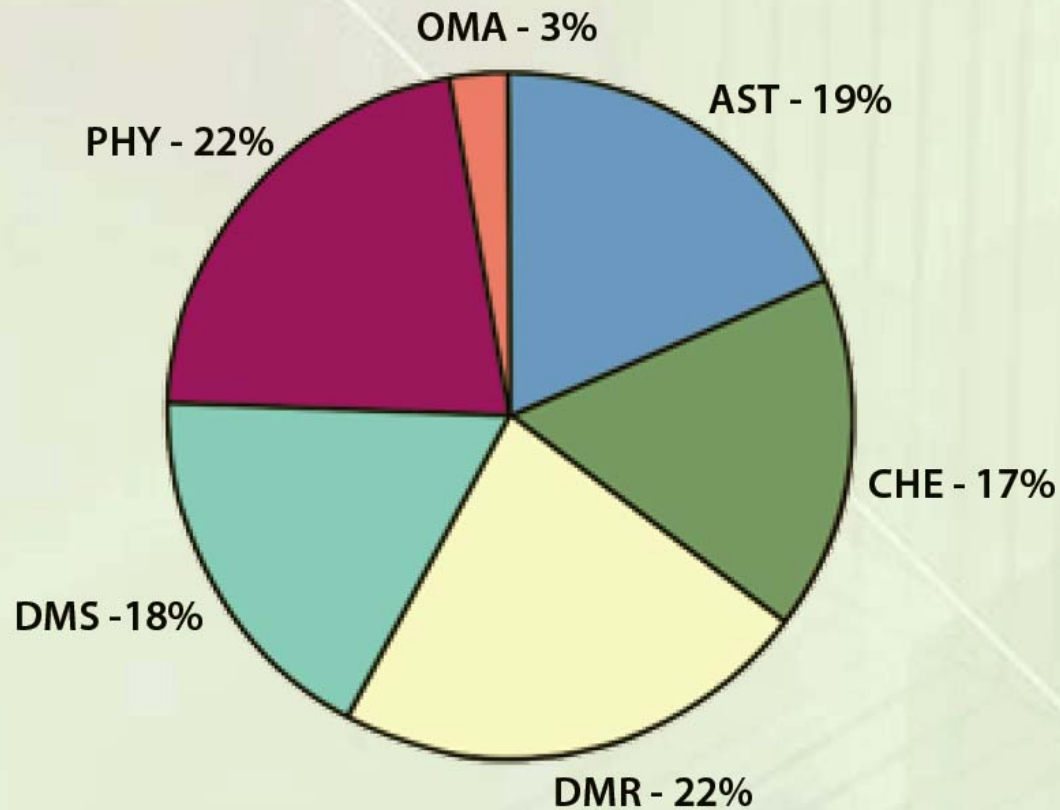


Talk to Your Program Officer

- Find best research placement for your proposal
- Find out how CAREER proposals are handled in that Division
- Find out practices in that Division
 - Example: expectations for education and outreach component vary across MPS and NSF

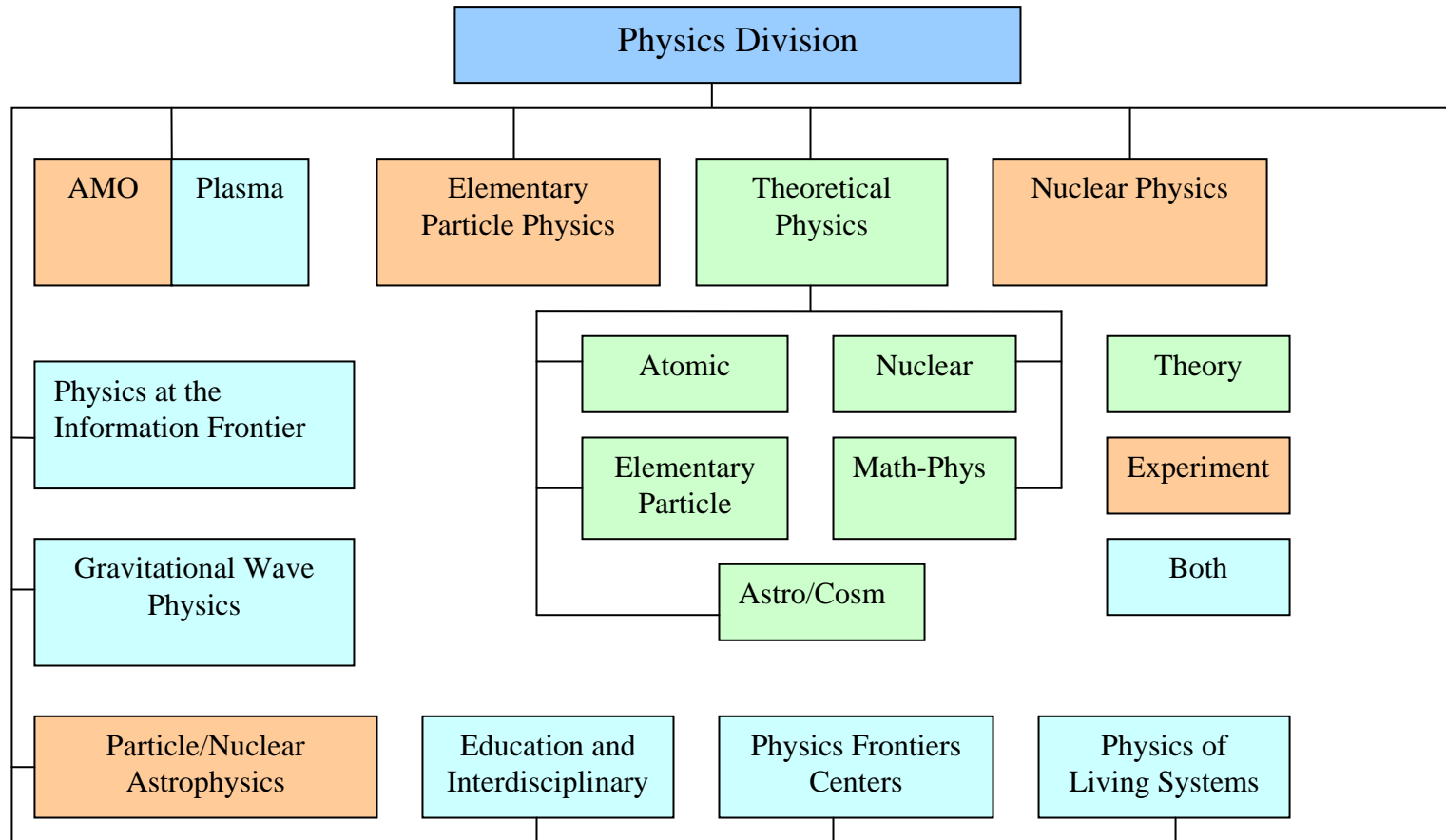


Directorate for Mathematical and Physical Sciences



Pie chart showing MPS total budget for FY 2007. MPS will spend \$1.15 billion in FY 2007.
Totals may not add due to rounding.





PHY Web Site: <http://www.nsf.gov/physics>

Most Have Target Date: Sept. 24, 2009

PIF, Plasma Target Date: Oct. 22, 2009

Physics of Living Systems: DEADLINE: July 31, 2009

CHECK TARGET DATES/DEADLINES

Kathy McCloud: kmcloud@nsf.gov

Division of Materials Research

- **Individual Investigator Programs**
 - Condensed Matter Physics
 - Condensed Matter and Materials Theory
 - Biomaterials
 - Solid-State and Materials Chemistry
 - Polymers
 - Metallic Materials and Nanostructures
 - Ceramics
 - Electronic and Photonic Materials



Proposal Writing Before You Place Pen to Paper

- Search the Award Database
- Investigate Program Websites
- Read Appropriate Solicitation
- Contact the Program Director
 - One or two paragraph describing projects
 - Possible phone call to talk about the project
- Possible co-review if inter/cross-disciplinary



Finding Information

Award Search on <http://www.nsf.gov>

The screenshot displays the National Science Foundation (NSF) website in a Mozilla Firefox browser window. The browser's address bar shows the URL <http://www.nsf.gov/>. The website's navigation menu includes links for HOME, FUNDING, AWARDS, DISCOVERIES, NEWS, PUBLICATIONS, STATISTICS, ABOUT, and FastLane. A red circle highlights the 'AWARDS' link in the navigation menu. Below the navigation menu is a large banner image showing a person working at a computer. The main content area is divided into several sections: 'Looking for Funding?' with links to 'For the Research & Education Community', 'Find Funding Opportunities', 'Upcoming Due Dates', and 'Funding Trends'; 'Latest News' featuring articles such as 'Engaging the YouTube Generation in Hands-on Science', 'Large-Scale Experiments Needed to Predict Global Change', and 'A Computer That Can "Read" Your Mind'; 'Now Showing: Film, TV, Museums and More' with a featured article 'Black Holes: The Other Side of Infinity'; and an 'Events Calendar' with a grid view and a list of events including 'All Events', 'Advisory Committee Meetings', 'National Science Board Meetings', and 'Proposal Review Panels'. On the right side, there are sections for 'Get NSF Updates by Email', 'Site Features', and 'Need Help?' with links to 'Help Center', 'Our New Design', and 'How Do I Find...?'. The USA.gov logo is visible at the bottom right of the page.



Award Search

NSF - Award Search - Awardee Information - Microsoft Internet Explorer provided by National Science Foundation

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss

Address <http://www.nsf.gov/awardsearch/> Go Links

Awardee Information Program Information Search All Free-Text Search All Fields

Hint: The text field below 'Search Award For' searches the title, abstract, and award number fields.

Search Award For:

Restrict to Title Only:

Awardee Information

Principal Investigator

First Name:

Last Name: PI Lookup

Hint: Including CO-PI will result in slower searches.

Include CO-PI:

Organization: Organization Lookup

State:

ZIP Code:

Country:

Hint: Historical data is from prior to 1976. This data may not be as complete as recent data.

Historical Awards:

Active Awards Only:

Expired Awards Only:

Local intranet

Boolean

<AND>

<OR>

<NOT>

“correlated electrons”
(A<AND>B)<NOT>C



Award Search

NSF - Award Search - Awardee Information - Microsoft Internet Explorer provided by National Science Foundation

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss

Address <http://www.nsf.gov/awardsearch/piSearch.do?SearchType=piSearch&page=1&QueryText=%22optical+tweezers%22> Go Links

[Back](#)

Results are sorted by award date, with the most recent awards at the top. Click on a column heading to re-sort the results.

The up/down arrows at the right of each column title control whether the sort is ascending or descending.

To view the abstract, click on the award number or title. Click on the data in other columns to perform a new search with that parameter.

[Refine Search](#)

9 awards found, displaying all awards.

Award Number	Title	NSF Organization	Program(s)	Start Date	Principal Investigator	State	Organization	Awarded Amount to Date
D451589	Biowire Transport Through Modulated Potential Energy Landscapes	DMR	CONDENSED MATTER PHYSICS	06/09/2004	Gies, David	NY	New York University	\$288,887.00
D348175	CAREER: Dynamics of Confined Colloidal Suspensions	CTS	PARTICULATE & MULTIPHASE PROCES	04/01/2004	Blażdziewicz, Jerzy	CT	Yale University	\$80,000.00
D304906	Biowire Transport Through Modulated Potential Energy Landscapes	DMR	CONDENSED MATTER PHYSICS	06/01/2003	Gies, David	IL	University of Chicago	\$274,190.00
D210689	CAREER: Manipulation and 3D Organization of Nanoparticles Using Dielectrophoresis	DMI	NANOSCALE, EXPLORATORY RESEARCH, MATERIALS DESIGN & SURFACE ENG, INTERFACIAL TRANS, & THERMODYN PRO	08/01/2002	Alexandridis, Paschalis	NY	SUNY at Buffalo	\$100,000.00
9804083	Novel Studies of Topological Order and Pinning Effects in Colloidal Crystals	DMR	CONDENSED MATTER PHYSICS	08/01/1998	Ling, Xinheng Sean	RI	Brown University	\$243,815.00
9870437	CAREER: Constrained Diffusion of an Isolated Colloidal Sphere in Confined Geometry	DMR	UNDISTRIBUTED PANEL/OPA FUNDS, CONDENSED MATTER PHYSICS	07/01/1998	Lin, Binhua	IL	University of Chicago	\$74,982.00
9805887	CAREER: Measurement of Colloidal Forces in Situ With Dual Optical Tweezers	CTS	PARTICULATE & MULTIPHASE PROCES, PHYSICS-OTHER	03/01/1998	Qu-Yang, H. Daniel	PA	Lehigh University	\$61,125.00
9707476	Tunable Interaction Potential in Charge-Stabilized Colloidal Suspensions	DMR	CONDENSED MATTER PHYSICS	05/01/1997	Larsen, Amy	MN	Saint Olaf College	\$18,000.00
9308388	Study of Particle Deposition and using Total Internal Reflection Microscopy	CTS	PARTICULATE & MULTIPHASE PROCES, HUMAN RESOURCES DEVELOPMENT	09/01/1993	Walz, John	LA	Tulane University	\$95,456.00

Export options: Excel | XML | CSV

Local intranet

Program(s)
Award Info



Award Search

Award#0502738 - Nonradiative Quantum Coherences in Semiconductors - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0502738

Customize Links RealPlayer TOSHIBA Access Windows Media Windows Google Washington Post New York Times

Nonradiative Quantum Coherences in Semiconductors

NSF Org DMR

Initial Amendment Date April 28, 2005

Latest Amendment Date April 28, 2005

Award Number 0502738

Award Instrument Continuing grant

Program Manager Wendy W. Fuller-Mora

DMR Division of Materials Research

MPS Directorate for Mathematical & Physical Sciences

Start Date July 1, 2005

Expires June 30, 2006 (Estimated)

Awarded Amount to Date \$115000

Investigator(s) Hailin Wang hailin@oregon.uoregon.edu(Principal Investigator)

Sponsor University of Oregon Eugene
5219 UNIVERSITY OF OREGON
EUGENE, OR 97403 541-246-5131

NSF Program(s) CONDENSED MATTER PHYSICS,
OPTICAL PHYSICS

Field Application(s) 0106000 Materials Research

Program Reference Code(s) AMPP,9161,7237,7203,1767,1290

Program Element Code(s) 1710.1200

Abstract

The proposed research focuses on studies of coherent nonlinear optical phenomena induced by electron spin coherence in semiconductor nanostructures. A main objective is to extend quantum optics concepts originally developed in simple atomic systems to semiconductors. This

Program Director

Division

Directorate

Funding Programs

Abstract

Notes - Mic... Microsoft O... E:\ C:\Documen... E:\Presentat... UMICH_NSF... NSF - Award... Award#010...

Program Info
Co-Fund Info
Abstract



Finding Information

Directorate Pages from <http://www.nsf.gov>

The screenshot shows the NSF website interface in a Mozilla Firefox browser. The main navigation bar includes links for HOME, FUNDING, AWARDS, DISCOVERIES, NEWS, PUBLICATIONS, STATISTICS, ABOUT, and FastLane. A banner image at the top features the text "Learning by Gaming" and "FEATURES 1 2 3 4 II".

The "Looking for Funding?" section is highlighted with a red circle around the "International Math, Physical Sciences, Polar Research" link. Other links in this section include "For the Research & Education Community", "Find Funding Opportunities", "Upcoming Due Dates", and "Funding Trends".

The "Latest News" section displays several articles, including "Engaging the YouTube Generation in Hands-on Science" (Released June 2, 2008), "Large-Scale Experiments Needed to Predict Global Change" (Released June 1, 2008), and "A Computer That Can 'Read' Your Mind" (Released May 30, 2008). There is also a "Now Showing: Film, TV, Museums and More" section with a link to "NSF supports great television, inspiring museum exhibits, breathtaking IMAX films, and compelling radio."

The "Events Calendar" section includes links for "All Events", "Advisory Committee Meetings", "National Science Board Meetings", and "Proposal Review Panels".

The footer contains the NSF logo, contact information for the National Science Foundation (4201 Wilson Boulevard, Arlington, Virginia 22230, USA), and a "Last Updated: Feb 08, 2008" notice.

Finding Information

Division Pages

The screenshot shows the NSF website for the Directorate for Mathematical & Physical Sciences (MPS). The page layout includes a top navigation bar with links like HOME, FUNDING, AWARDS, DISCOVERIES, NEWS, PUBLICATIONS, STATISTICS, and ABOUT. Below this is a search bar and a navigation menu with links for MPS Home, MPS Funding, MPS Awards, MPS Discoveries, MPS News, and About MPS. The main content area is divided into three columns:

- Left Column (MPS Organizations):** Lists various divisions including Astronomical Sciences (AST), Chemistry (CHE), **Materials Research (DMP)** (circled in red), Mathematical Sciences (DMS), Physics (PHY), and Office of Multidisciplinary Activities (DMA). It also includes links for About MPS, View MPS Staff Directory, Search MPS Staff Directory, General Information About MPS, Career Opportunities, Advisory Committee, Budget Excerpt, Proposals and Awards, Proposal and Award Policies and Procedures Guide, Grant Proposal Guide, Awards and Administration Guide, Award Conditions, Other Types of Proposals, Merit Review, NSF Outreach, Policy Office, and Awards.
- Middle Column (Special Announcements):** Features a list of recent announcements such as 'Appointment of Dr. Zakva H. Kafafi as Director, Division of Materials Research', 'MPS Budget Request FY2008', and 'MPS Rotator and Reviewer Opportunities'. It also includes sections for 'Recently Announced Funding Opportunities' and 'Upcoming Due Dates' with links to 'See All'.
- Right Column (Get MPS Updates by Email):** Contains a 'Get MPS Updates by Email' checkbox, 'Featured Programs', 'Additional MPS Resources', 'Broadening Participation', 'Publications', and 'Dear Colleague Letter' sections.

The footer of the page includes the text 'FY 2008 MPS Funding Data for Research Grants'.

Finding Information

Program Pages

The screenshot shows the NSF Division of Materials Research (DMR) website. The main content area is titled "Materials Research (DMR)" and features a "Submission Window for Unsolicited Proposals" section. Below this, there is a list of program pages, including "Condensed Matter Physics (CMP)", which is circled in red. The website also includes a search bar, navigation links, and a sidebar with various resources.

nsf.gov - Division of Materials Research (DMR) - US National Science Foundation (NSF) - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.nsf.gov/div/index.jsp?div=DMR

Most Visited Google New ISI Web of Knowl Electronic Jacket Logit Inside FastLane Login Award Search US NSF - National Sci DMR - NSF

HOME | FUNDING | AWARDS | DISCOVERIES | NEWS | PUBLICATIONS | STATISTICS | ABOUT | FastLane

National Science Foundation
DIRECTORATE FOR
Mathematical & Physical Sciences (MPS)

SEARCH

MPS Home | MPS Funding | MPS Awards | MPS Discoveries | MPS News | About MPS

Materials Research (DMR)

DMR Home
About DMR
Funding Opportunities
Awards
News
Events
Discoveries
Publications
Career Opportunities
Workshops and Reports
Focused Research Groups
Research and Education Highlights
See Additional DMR Resources
View DMR Staff
Search DMR Staff

MPS Organizations
Astronomical Sciences (AST)
Chemistry (CHE)
Materials Research (DMR)
Mathematical Sciences (DMS)
Physics (PHY)
Office of Multidisciplinary Activities (DMA)

Proposals and Awards
Proposal and Award Policies and

Materials Research (DMR)

Submission Window for Unsolicited Proposals

Unsolicited proposals for consideration for FY09 funding from DMR will be accepted in accordance with previously published guidelines, http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf06022. (Link to archived DCL - A Submission Window for Unsolicited Proposals to DMR....Check back for an updated version of this letter.) **This year our proposal submission window is open from September 15 through November 7, 2008.**

We strongly advise Principal Investigators and Sponsored Research Offices to submit early and avoid a last-minute rush, which can cause problems in timely and correct transmission to NSF. Proposals that have formatting problems or are otherwise non-compliant with the Grant Proposal Guide, http://www.nsf.gov/publications/pub_summ.jsp?ods_key=omp, can usually be corrected and resubmitted within the same window if received early; there may be no time to do that for proposals submitted close to the deadline date.

DMR discourages the submission of more than one proposal from the same Principal Investigator during the proposal-submission window.

Perspective on Broader Impact Review Criteria

View the [DMR Dear Colleague Letter](#) for more information.

Special Announcements

NSF Division of Materials Research announces American Competitiveness and Innovation Fellows ([PDF](#))

Programs and Funding Opportunities

Key: [Crosscutting](#) | [NSF-wide](#)

[Biomaterials \(BMAT\)](#)
[Ceramics \(CER\)](#)
[CHE-DMR-DMS Solar Energy Initiative \(SOLAR\)](#)
[Condensed Matter Physics \(CMP\)](#)
[Instrumentation for Materials Research \(IMR\)](#)

Done





Finding Information

Program Information

nsf.gov - Materials Research (DMR) - Funding - Condensed Matter Physics - US National Science Foundation (NSF) - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.nsf.gov/funding/pgm_summ.jsp?pins_id=5666&org=DMR&from=home

Most Visited Google New ISI Web of Knowl Electronic Jacket: Logit Inside FastLane Login Award Search US NSF - National Sci DMR - NSF

HOME | FUNDING | AWARDS | DISCOVERIES | NEWS | PUBLICATIONS | STATISTICS | ABOUT | FastLane

Find Funding Recent Funding Due Dates Preparing Proposals About Funding

National Science Foundation
DIRECTORATE FOR
Mathematical & Physical Sciences (MPS)

SEARCH
NSF Web Site

MPS Home | MPS Funding | MPS Awards | MPS Discoveries | MPS News | About MPS

Materials Research (DMR)

Condensed Matter Physics (CMP)

CONTACTS

Name	Email	Phone	Room
Wendy Fuller-Mora	wfullem@nsf.gov	(703) 292-4931	1065 N
Roy G. Goodrich	rgoodric@nsf.gov	(703) 292-4929	1065 N
Oscar O. Bernal	obernal@nsf.gov	(703) 292-2199	1065N

PROGRAM GUIDELINES

Apply to PD 03-1710 as follows:

For full proposals submitted via FastLane: standard [Grant Proposal Guidelines](#) apply.
For full proposals submitted via Grants.gov: NSF Grants.gov Application Guide; A Guide for the Preparation and Submission of NSF Applications via Grants.gov Guidelines apply (Note: The NSF Grants.gov Application Guide is available on the Grants.gov website and on the NSF website at: <http://www.nsf.gov/fns/diss/policy/docs/grantsgovguide.pdf>)

DUE DATES

Full Proposal Window : September 15, 2008 - November 7, 2008

SYNOPSIS

Supports fundamental, experimental, and combined experiment and theory projects on the physics of solid, liquid, and amorphous systems. Phenomena of interest include phase transitions; localization; electronic, magnetic, and lattice structure; superconductivity; elementary excitations, including electronic, magnetic, plasma, and lattices; transport, magnetic, and optical properties; and nonlinear dynamics. Low-temperature physics is represented by research on quantum fluids and solids as well as two-dimensional electron systems. Soft condensed matter research includes partially ordered fluids and colloid physics. Characterization and analysis of new materials by novel methods and research on condensed matter under extreme conditions-such as low temperatures, high pressures, and high magnetic fields-are of interest. Development of new experimental techniques may be appropriate where necessary to carry out the proposed research.

RELATED PUBLICATIONS

[Grant Opportunities for Academic Liaison with Industry \(GOALI\) \(NSF 07-522\)](#)

[Abstracts of Recent Awards Made Through This Program](#)

[News](#)

[Discoveries](#)

DMR Home

About DMR

Funding Opportunities

Awards

News

Events

Discoveries

Publications

Career Opportunities

Workshops and Reports

Focused Research Groups

Research and Education Highlights

See Additional DMR Resources

View DMR Staff

Search DMR Staff

NPS Organizations

[Astronomical Sciences \(AST\)](#)

[Chemistry \(CHE\)](#)

[Materials Research \(DMR\)](#)

[Mathematical Sciences \(DMS\)](#)

[Physics \(PHY\)](#)

[Office of Multidisciplinary Activities \(OMA\)](#)

Proposals and Awards

Proposal and Award Policies and

Done

Crosscutting Programs

The screenshot shows a Mozilla Firefox browser window displaying the NSF website. The address bar shows the URL: http://www.nsf.gov/funding/pgm_list.jsp?type=xcut. The page title is "US NSF - Crosscutting and NSF-wide Active Funding Opportunities - Mozilla Firefox".

The NSF logo is at the top left, with the tagline "WHERE DISCOVERIES BEGIN". A search bar is located at the top right. The navigation menu includes: HOME | FUNDING | AWARDS | DISCOVERIES | NEWS | PUBLICATIONS | STATISTICS | ABOUT | FastLane.

The main content area is titled "Crosscutting and NSF-wide Active Funding Opportunities". Below the title, there is a paragraph explaining that the site provides program information for activities sponsored by more than one NSF organization, and that all NSF organizations accept proposals that cut across organizational and programmatic boundaries. It suggests consulting the NSF program site(s) closest to the science, engineering or education focus of the planned work and contacting relevant program officers to discuss submission of a proposal.

Below the paragraph, there are filters: Key: [Crosscutting](#) | [NSF-wide](#) and Status: . A "Sorted by Title" instruction is provided, along with a note to click column headings to sort.

Title	Program Guidelines	Due Dates
ADVANCE: Increasing the Participation and Advancement of Women in Academic Science and Engineering Careers	05-584	Full Proposal: July 15, 2005
		Full Proposal: July 22, 2005
		Full Proposal: January 27, 2006
Assembling the Tree of Life (ATOL)	05-523	Full Proposal: March 27, 2006
Collaboration in Mathematical	05-535	Full Proposal:

The left sidebar contains a "Funding" section with links to: Funding, About Funding, A-Z Index of Funding Opportunities, Advanced Funding Search, Guide to Programs/Browse Funding Opportunities, Recent Funding Opportunities, Upcoming Due Dates, How to Prepare Your Proposal, Grant Proposal Guide, Frequently Asked Questions, Other Types of Proposals, Regional Grants Conferences, How to Manage Your Award, and Grant Policy Manual.



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Learn the Review Process

Contact Program Director in Your Research Area and **Volunteer to:**

- **Serve as a **panelist****
- **Be an *ad hoc* **mail reviewer****

