Our Mission

The Office of Research Administration provides support to University faculty and staff in identifying funding opportunities, assisting with proposal development and the financial administration of awards in support of the University's scholarly activity and research mission.

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Resubmission? Be sure to check the RFP

Industry Collaboration

Corporate Support for Faculty

In these times of ever tightening budgets, industry is turning to academia for R&D assistance and PIs are looking to industry to support graduate students, post doctoral staff, equipment and other research needs. Some UMass Dartmouth faculty members have direct contracts with private firms, while others have joint awards for federal funding. Faculty members have tapped into instrumentation or lab resources of private corporations and equipment manufacturers and several work co-operatively with non-profit partners.

Chemistry

The Botulinum Research Center has developed long term ties with industry, strengthened by the Center's annual Symposium which brings academic, industry and government partners together annually to promote collaboration and exchange. Bal Ram Singh, Center Director and Professor of Chemistry
and Biochemistry has successfully partnered with Cambridge-based Quanterix on federal proposals, while Shuowei Cai, Associate Professor of Chemistry and Biochemistry is in his fifth year as a PI of a research grant from Anterios Corporation.

Cathy Neto, Associate Professor of Chemistry turned to Bruker BioSpin in Billerica, to help provide support for student training in cranberry metabolic profiling using Bruker NMR technology.

Siva Rasapalli, Assistant Professor of Chemistry, found a partner in Worcester-based Microbiotix, a private pharmaceutical company, for his research on natural product scaffolds for new drugs. Microbiotix provides funding for a post doctoral researcher in their shared search for drugs to combat bacterial biofilm formation and antibiotic resistance.

Wenzhen Huang, Associate Professor of Mechanical Engineering and Guarav Khanna, Associate Professor of Physics have won NSF Grant Opportunities for Academic Liaison with Industry (GOALI) for industry-university research.

Huang's project, *A Mode-Based Math Model for Geometric Variation & Tolerance Control* involves two universities (UMass Dartmouth and University of Oklahoma) and one industrial collaborator, Dimensional Control Systems, as well as an additional industrial partner GM Corp. Their work focuses on optimal design of products and processes through development of models for geometric variation and tolerance design.

Khanna's GOALI, *An Exploration of the Use of Open CL for Numerical Modeling and Data*, focuses on programming hardware accelerators so computational scientists can explore multiple computer architectures with less effort. The Open Computing Language (OpenCL), led by Nvidia, industry partner on this GOALI award, and collaborating researcher at Apple is designed to be cross-platform and vendor neutral, and is supported on all the major computer hardware currently available. OpenCL may give computational scientists a chance to explore several accelerator technologies with significantly less code development.

As part of work his work with CUDA graphics processor Khanna was featured in a profile of Mehdi Raessi, Assistant Professor of Mechanical Engineering on *Developers' Zone for Nvidia's*. Raessi's lab has received support for a graduate student from Sunwell Technologies of Woodbridge, Ontario, which specializes in slurry ice.

Lisa Knauer and Tim Shea found partners in the non-profit realm of New Bedford for their Creative Economy grant working with Mujeres Artesanas, a women's weaving and handcraft cooperative to create jobs through establishing and nurturing small businesses owned by women and/or minorities, with particular emphasis on artisanry, handicrafts and the arts.

The Division of Professional and Continuing Education has partnered for the past two years with the City of Fall River and nearly a dozen Fall River arts and cultural organizations to expand public involvement in cultural life of the city. Their collaboration has won continued support of the Massachusetts
Cultural Council through its Adams Arts Program which funds projects that create jobs and income, revitalize downtowns, and draw cultural tourists.

A good first step for any faculty member interested in working with industry is to talk with Bill Lyndon, Licensing Associate for UMass Dartmouth. He works with faculty whose work has commercial potential offering support every step of the way including:

- Preparing material transfer agreements, to protect resources shared with industry partners;
- Timing of invention disclosures, a precursor to patent filing;
- Initiating contact with appropriate corporate scientific personnel.
- Applications for the University's Commercial Ventures and Intellectual Property (CVIP) grants

Faculty should be aware that The America Invents Act signed into law in December 2011 changes the priority for patent rights from "first to invent" to "first to file". One intent of the legislation was to put U.S. policy on the same basis as most other countries. The America Invents Act retains the protection of a one-year grace period, from time of first disclosure (for example through a conference or workshop) to time of filing. The disclosure protects against a race to file from competitors in the U.S., but doesn't offer the same protection for patent claims overseas.

As well as providing direct support, industry colleagues can partner on federal grant submissions. Federal programs such as Small Business Technology Transfer (STTR) are designed for collaborations between non-profit research institutions and business. The Departments of Defense, Energy, Health and Human Services, NASA and NSF are all required to allocate 0.3% of their extramural research budget for STTR awards.

Defense and Energy have traditionally supported corporate R & D, but NIH and NSF have recently accelerated their effort for translating basic research to practical applications; NIH through its network of Centers for Clinical and Translational Science (like UMass Med's) and NSF through new programs such as I-Corps.

The NSF Innovation Corps (I-Corps) program funds current NSF researchers with six-month awards for $50,000 to bring discoveries ripe for innovation out of the university lab. The purpose of the NSF I-Corps grant is to give the project team access to resources to help determine the readiness to transition technology developed by previously-funded or currently-funded NSF projects. A team consisting of the PI, an entrepreneurial lead who researches and develops the business plan and a mentor, usually an experienced local entrepreneur. PIs can tap into the network of mentors to advise and provide
UMass Commercial Venture/Intellectual Property Grants

business perspective. PIs must commit to completing an online curriculum to identify and mitigate gaps in their commercialization strategy. Expected outcomes are three-fold: 1) a clear go/no go decision regarding viability of products and services, 2) a transition plan to move forward and 3) a technology demonstration for potential partners. NSF offers a webinar the first Tuesday of every month to explain the program and answer questions. PIs can anticipate a quick turnaround as review is internal only.

Each January the University of Massachusetts system offers eight $25,000 Commercial Ventures and Intellectual Property grants to advance previously disclosed University technologies toward commercialization. Like I-Corps the grant is intended to move technologies to the proof of concept stage or to allow the investigator to take other critical steps to make the technology attractive for licensing. Bill Lyndon works with faculty to develop CVIP submissions.

New Proposal Routing Form

Why Have a Routing Form?
The Proposal Routing Form that PIs prepare for all proposals is a UMass system requirement and has several important functions:

- The PI Certifications on the last page are required by the University and funding agencies to ensure that the project complies with both internal and external regulations and guidelines.
- The Approval of Department Chairs, Directors and Deans insures that the required resources for the project's success are available for the project, that any risks are acknowledged and obligations approved.
- The proposal and budget information from the Routing Form is entered into Peoplesoft so that reports on proposal submission by type, PI, Division or Sponsor can be queried and so the basic information for grant setup is in the system should an award be issued.
- The Routing Form also alerts Grant Managers that IRB, IACUC or Biosafety approvals are needed before funds can be released.

Link to ORA Forms Page

Summary of Changes
Although the form is now three pages, the changes result in a cleaner, more logical layout that should be easier to navigate.

I. PI and Co-PI Info
Co-PIs are more prominently displayed. Their names appear just below the PI and their signatures also have moved to certification section below the PI.

PI and Co-PIs state the academic year and summer effort they will commit to this project and whether they are requesting a course release.

II. Proposal Information
The type and purpose of proposals has been simplified.

The sponsor now has room for both the direct sponsor and the prime sponsor if the proposal is a subcontract on a larger grant.
The adequate space question has been expanded to help the Chairs and Dean's evaluate the space requirements.

**V. Indirect Cost Recovery Allocation**

A new section on Indirect Cost Recovery Allocation will be used to document sharing of allocations between co-investigators, departments, centers and colleges. The Chair's and Dean's signatures on the Routing Form indicate their acceptance of the Indirect Allocation.

**VI. Certifications**

Four questions have been added concerning Export Control. Again, this section is used to insure that necessary protections and protocols are in place before grant funds are released.

**VII. Declarations**

The certifications and signature page has been expanded to allow for signatures of multiple PIs, their chairs and Deans. All signatures must be on one form, so there is no confusion about who is administrative PI on a proposal and so all approvers at all levels are aware of the proposal partners.

**Remember to Recycle!**

Please recycle any paper copies you or your Department may have of the Routing Form. Once the new form is in use, the old form will not be accepted.

**Award Update**

The University received $21,396,837 in funding during FY 2011. This compares to $20,042,054 in FY 2010 and includes awards received for research, public service and other sponsored activities. The total number of awards was 175 compared to 161 in FY10.

**Number of Awards 2011 vs. 2010**

![Bar chart showing number of awards in 2011 vs. 2010](chart)

**Award $ Amount 2011 vs. 2010**

![Bar chart showing award amounts in 2011 vs. 2010](chart)
Following a test with approximately 30 UMass Dartmouth faculty and staff, ORA is switching from SPIN to Pivot, the newest version of the Community of Science funding opportunity search engine already in use at UMass Amherst, UMass Boston and UMass Medical School. With a comprehensive database that includes access to over 3 million collaborator profiles, Pivot allows users to search for a funding opportunity and instantly view matching faculty from inside or outside UMass Dartmouth. As in SPIN, users can save searches and receive alerts, but the interface is much more intuitive, easy to use and offers additional features. General searches can be easily narrowed, results saved or tracked, automatic updates generated. Opportunities can be shared with any colleague, even non-Pivot users. Pivot can find "more opportunities like this". Students will find it useful for scholarship and fellowship searches.

SPIN users will notice a large difference in accuracy and volume of suggested opportunities. Faculty in Law, Arts and the Humanities should find it much more useful. The current SPIN subscription will end March 30.

As an on-line subscription service, Pivot is available to anyone logged into the University's UMDAR server. VPN access is necessary for portable devices and computers.

Pivot offers orientation webinars for University faculty and researchers. Upcoming webinars are February 21th at 12 noon, March 6th at 7 pm and March 13th at 9 am. The hour-long webinar will teach a researcher, faculty, graduate student or other Pivot account holder how to:
1) Navigate and manage the Pivot home page
2) Search Pivot Funding via Quick Search and Advanced Search; make a Pivot Funding Opportunity active; track an opportunity; share it with others; save a search strategy; tag active and tracked records
3) Search Profiles via Quick Search and Advanced Search
4) Pivot Advisor; intelligent mapping of Profiles to Funding
5) Claim a Profile; edit and enrich a profile

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Recipients of 2010 - 2011 Healey and Chancellor's Research, Public Service or Cranberry Research Grants, should have submitted a project report via e-mail to Mary Hensel. As a reminder, these reports must be filed before PIs can apply for internal funding in 2012 - 13.
In the Spotlight

Recent NSF Awards

**Pia Moisander**

Biological Oceanography

**Karen O’Connor**

Noyce Master Teaching Fellows Program

Three CAREERs:

**Chandra Orrill** for Research on Learning and Education

**Nima Rahbar & Katja Hölttä-Otto** for Civil, Mechanical Manufacturing Innovation

**Sukulyan Sengupta**

Sankha Bhowmick

MRI - Chemical, Bioengineering, Environmental and Transport Systems

UMass Dartmouth wins Performance Incentive Grant

UMass S&T Start-up for Cranberry Health Research Center

To Pia Moisander, Assistant Professor of Biology: $462,176 for *Microbial associations in zooplankton: significance for the marine nitrogen cycle.*

To Karen O’Connor, Director Center for University and School Partnerships $1,290,880 for the first three years of a six-year project titled *TEACH: South Coast STEM.* Mark Smith, Executive Director of the New Bedford Ocean Explorium is a Co-Investigator. Partner schools are Fall River Public Schools, Global Learning Charter Public School, New Bedford Public Schools, Greater New Bedford Regional Vocational Technical High School and Wareham Public Schools.

To Chandra Orrill, Assistant Professor in Science Technology Engineering and Mathematics a prestigious CAREER award for her proposal *Coherence as a Basis for Understanding Teachers Mathematical Knowledge.* Orrill's is the first at UMass Dartmouth in over a decade. First year funding is for $135,729 of five-year $600,000 project.

Close on the heels of Orrill's award, Nima Rahbar, Assistant Professor in Civil Engineering and Katja Hölttä-Otto, Assistant Professor of Mechanical Engineering garnered unprecedented second and third CAREER awards for UMass Dartmouth. Rahbar was awarded $400,000 for his proposal *Mechanics of Bio-Inspired Multilayered Structures.* Hölttä-Otto's *Measuring and Modeling Innovation and Risk in Engineering Design* also received $400,000.

To Sukulyan Sengupta, Associate Professor of Civil Engineering, and Sankha Bhowmick, Associate Professor of Mechanical Engineering a Major Research Instrumentation award of $118,350 for *Acquisition of a Nanospider for Development of Next Generation Polymeric Nanofibers.*

The University of Massachusetts Dartmouth was one of 18 institutions in the State system to win a Performance Incentive Grant from the State Department of Higher Education. Associate Provost for Undergraduate Education Magali Carrera is the PI. $125,000 was awarded for the first year of a three-year grant to support assessment and also establish the Office for Undergraduate Research under the leadership of Mathematics Professor Gary Davis.

Catherine Neto and Maolin Guo, Associate Professors of Chemistry and Biochemistry, were awarded a University of Massachusetts Science and Technology grant to establish a Cranberry Health Research Center drawing faculty from all five UMass campuses. The center links regional agricultural strengths and investigate application in health. Cranberries contain heart healthy "antioxidants" and compounds that reduce cancer cell proliferation and growth of microbial pathogens and may protect against many diseases including cancers, cardiovascular disease, diabetes, Alzheimer’s strokes and infections. The Cranberry Health Research Center will investigate how these compounds work, how to measure efficacy and products or formulations that produce the highest benefit.
Congratulations to
Healey, Public Service
and Cranberry
Awardees
For 2011-12

For project titles and department affiliations of awardees, follow this link to UMass Dartmouth Internal Grant Awardees.

Healey and Chancellor's Research Grants: Yanlai Chen; Robert Drew & Kathryn Kavanagh; Matthew Ingram; Medhi Raessi; Mark Silby; Mazdak Tootkaboni and Nima Rahbar; Timothy Walker; and Honggang Wang.

Public Service Grants: Robert Darst & Tara Rajaniemi; John Fobanjong; Angappa Gunasekaran; and Bal Ram Singh.

Cranberry Research Grants: Catherine Neto; Catherine Neto & Maolin Guo; Elizabeth Winiarz

Briefs & Updates

NSF changes for BIO Divisions: IOS, DEB & MCB

NSF’s Biology Directorate has announced new procedures for proposals to the IOS, DEB and MCB Divisions in response to a more than 40% increase in the number of unsolicited proposals received and resulted in funding rates of 15% or less. One goal of these new procedures is to reduce the burdens on the PI and reviewer communities associated with intensifying competition for limited funds. A second is to better manage proposal processing in the face of growing proposal submission numbers while maintaining the high quality of the merit review process and resulting funding selections.

Integrative Organismal Systems and Environmental Biology have moved to a single cycle per year to limit the volume of proposals; added a pre-proposal round to increase funding rates; limited PI's participation to two proposals per cycle per division either as lead PI, Co-PI or lead PI on a sub-contract or collaborative proposal. Pre-Proposals are due in January with invitations for full proposals issued in May.

The Division of Molecular and Cellular Biosciences does not require pre-proposals but has moved to an 8-month rather than 6-month cycle. Deadlines for proposal submission will be May 21, 2012 and January 28, 2013 and the number of full proposals submitted per 8-month cycle by an investigator will be restricted to one proposal as a PI or co-PI.

Echoing NIH's and OMB's growing interest in providing public access to federally funded research, NSF has issued a call to develop infrastructure for dissemination of research results in publicly accessible form. A Dear Colleague Letter regarding Conduct of Science in the Information Age requests the research community to propose research workshops that identify and develop data, models, and tools to help inform this effort by:

- Advancing scientific communication both nationally and internationally by:
  - fostering the replication of scientific research,
  - ensuring attribution for the intellectual contributions of researchers,
Budget CSF fees at $7,500 per year

Graduate Student Curriculum Support Fees must be included in budget requests for graduate research assistant funding. Grants are charged the actual fees incurred by the students each semester, up to the amount available the grant budget. Graduate students must be full-time to hold a Research Assistantship. With few exceptions, most RAs take 9-credits per semester. Therefore please allow $7,500 per student per year for a full time (20 hour per week) graduate student.

Cayuse Tips

Cayuse is the web-based portal for submission to nearly all agencies who use grants.gov including NIH, In addition to pre-loading institutional information and validating proposals as you complete them, it offers several useful shortcuts:

Check your profile contact information and update before each proposal, then autofill link (pencil icon) in upper right

When building budgets where program costs are the same each year use the replicate to copy the budget from year to year and the escalate button (stair icon) to increase salary amounts by a set percentage each year.

Use a submitted proposal as the basis for a new proposal or transform a proposal from one type to e.g. NIH R21 to R03.

Faculty members should have access to Cayuse with a user name of first initial and last name. Passwords can be set on Login screen. If user name is not found please contact Mary Hensel at X8074 or mhensel@umassd.edu.

Keep your match certification current

Proposals that offer institutional cost share or matching funds require a cost share approval form as part of internal paperwork. The ORA accountants, Nancy Correia and Sandra Rosa use these forms to track our cost share and include in the invoices we send sponsors, to show our progress on cost share obligations at the time we request payment. If your cost share commitment changes, due to staff changes, facilities moves or for whatever reason, please update your form.

Advancing the measurement of scientific activity both nationally and internationally by:

- identifying sources of information about researchers' productivity and impact, and
- developing ways to automatically capture and validate researchers' scientific activity.

Proposals will be accepted on a rolling basis until August 2012. Apply through Science of Science and Innovation Policy program.
Cost share commitments from partners outside of the institution should be detailed in a letter of collaboration or a letter of intent to subcontract.

If you have not completed your effort cards in ECRT for the summer period please do so as soon as possible. The certification period closed with 28% of faculty members yet to certify. It is even more imperative that you certify if you are among the 16% of faculty who have not certified for the Spring of 2011.

Certification for Fall of 2011 will open on February 20th. If you have questions or need assistance, please contact Julie Rodrigues at X8173.

The University is preparing a response to the RFA from US AID for its new program University Engagement through Higher Education Institutions and seeks the participation of interested faculty. This is an extraordinary opportunity offered on a very short time line. The agency explains “This draft RFA represents a new era in USAID’s engagement with the academic community. . . . The Agency is pushing itself to solve the major challenges facing the world and this draft RFA is a step towards exploring how to do with through academic partnerships. The proposal is ambitious, the notional timeline even more so, but we ask that the same from you. We look forward to transforming the international development landscape with you.”

Engaging University partners through grants of $1MM - $5MM is part of the USAIDs strategy to leverage resources beyond the agency. USAID will offer cooperative agreements for five years, but seeks to develop long term partnerships or projects with a timeframe of ten to twenty years. USAID seeks proposals that:

1) develop data and analysis to advance development policy, programming and evaluation

2) create novel higher-institution based, multidisciplinary development centers that will connect USAID to communities of problem solvers in both the developed and developing world around key development challenges and

3) support science, technology and engineering for development.

Limited submission programs are those in which the number of submissions per institution is limited by the sponsor. If faculty members are interested in a limited submission it is critical that they contact ORA to register their interest. If more than the allowed number of faculty members intend to submit, a committee led by AVC Lou Petrovic will review pre-proposals and select the one(s) to be submitted to the sponsor. Examples of popular programs are NSF’s Major Research Instrumentation (MRI) and Partnerships for International Research and Education (PIRE). The Limited Submission website lists over 30 grants that may require institutional review. Calls for pre-proposals are listed on the website, in UMDAnnounce and by e-mail to faculty and program directors.
Creative Research Awards for Transformative Interdisciplinary Ventures is a new grant mechanism to encourage cross disciplinary science and break down disciplinary barriers within NSF. CREATIV aims to attract high risk/high reward projects and provide substantial funding for novel ideas. There are no designated topics for CREATIV. The program is open to all NSF supported areas of science, engineering and education research.

Continuing the interdisciplinary and transformative vein, NSF focuses on healthy aging and disease prevention the new [Health and Well Being](https://www.nsf.gov/about/career/healthwellbeing.jsp) program which seeks interdisciplinary teams to address barriers limiting quality of life and independent living. Once a cross cutting program in Computing and Information Science and Engineering (CISE) cross-cutting program, now offered in conjunction with the Engineering and Social Behavioral and Economic Sciences Directorates. Proposals can address computational, algorithmic, system and device level issues as well as models of uptake and use of resulting solutions. Specific areas of research mentioned in the RFP include Digital Health Information Infrastructure; From Data to Knowledge to Decisions; Empowering Individuals; and Sensors, Devices and Robotics. Due date February

Science Across Virtual Institutes aims to foster interactions among scientists and educators around the globe by bringing together physically and virtually teams to work collaboratively. US researchers will be supported by NSF, foreign collaborators by national or regional funding source. SAVI is not a stand-alone program like CREATIVE and Health and Well being. It can be submitted as supplemental funding to existing award or as a new proposal to an existing active program.

Google faculty research awards aim to increase the interaction between Google and academia and to support academic research aimed at improving information access, broadly defined. Google retains no intellectual property from the research and prefers to support research whose results are open sourced and widely published. Awards are for one year and range from $10,000 to $150,000. A few areas of interest are: economics and market algorithms, education innovation, human computer interaction, machine learning and data mining, mobile applications, multi-media search and A/V processing and security and privacy. Awardees will be assigned a sponsor at Google to facilitate the exchange of ideas and insights.

NIH has issued a new System Science and Health PAR for research projects that have a human behavioral and/or social science focus, and feature systems science methodologies.

Systems science methodologies are specific methodological approaches that have been developed to understand connections between a systems structure and its behavior over time. They are valued for their ability to address the complexity inherent in behavioral and social phenomena, for example they
NEH Summer Seminars & Institutes
March 1, 2012

Massachusetts Humanities Council
LOI March 22, 2012

Planning to Submit?

Why Re-read an RFP?

New Criteria

While most federal agencies issue new RFPs periodically (annually to every three years), reading the latest version can save time and trouble in preparing your submission.

Have the criteria changed? Many agencies, including Agriculture and Defense change their priority topics from year to year. The Department of Education often lists competitive preferences. Last year's hot topic may be swept off the radar screen as agencies try to stay ahead of new trends and discoveries.

Deadline changes

One student support submission was reliably due every January, until the year it shifted to December, and the following year to November. NB that changes of deadline are often released as modifications to an RFP. PIs who've signed excel at identifying non-linear relationships, bi-directional feedback loops, time delayed effects, emergent properties of the system, and oscillating system behavior. The pathways between the social, economic, and environmental causes of poor health are complex and interconnected. Models and other novel analytic tools can elucidate these pathways and relationships and be used to assess the benefits and harms of policy and intervention options. These tools are needed to support policy-making, including resource allocation. Examples of topics of interest to specific Institutes are listed in the PAR.

NEH Summer Seminars and Institutes support professional development programs in the humanities for school, college and university teachers. The primary goal is to deepen understanding of a subject in order to advance humanities teaching.

The seminars and institutes may be as short as two weeks or as long as five weeks so that the program allows for a rigorous treatment of its topic. Seminars enable participants to conduct scholarly research or focused study under the direction of a scholarly expert. Institutes focus on an important topic for national high school or undergraduate curricula, with an emphasis on developing content rather than pedagogy.

Mass Humanities Council supports public programming for film-, lecture-, reading-, and discussion series; exhibits; media pre-production and distribution; and other public activities. The standard maximum award is $5,000, though some thematic and media grants can be as high as $10,000. All grants have a one to one match requirement. A conversation with a Mass Humanities program officer is required to access the online application. There are three proposal rounds each year.

Please let Michelle Plaud or Mary Hensel know in advance so we can work with you to avoid a last minute rush before submission. We cannot guarantee there will be time to review proposals for compliance if we receive less than two full business days before the deadline.
Eligibility changes

Eligibility criteria can change without the issuance of a new RFP or modification. UMass Dartmouth has been eligible NSF RUI (Research in Undergraduate Institutions) status which required that UMass Dartmouth graduate fewer than 20 doctoral students on average over the past three years and that the PI's home department not grant PhD degrees. The latter criteria has been revised to clarify that joint degrees with other campuses will be considered departmental degrees and that for a department to be eligible its faculty members may not supervise graduate students. This changed removed several departments at UMass Dartmouth from RUI eligibility.

New Limitations

Also, in an attempt to control volume as awards become increasingly competitive, several agencies have started limiting the number of proposals for which a faculty member can serve as PI.

New Forms

In the past two years NSF has added requirements for post doc mentoring, data management and performance locations including DUNS number for collaborators. NIH biosketches now require a personal statement tailored to each proposal submission.

For the latest in changes, please consult the most recent NSF Grant Proposal Guide (updated each December and effective in January) and NIH SF424 guide, whose R&R forms are used by many federal agencies.

Other Resources

Check the Research Administration website for proposal development guides and tips for NIH proposal preparation.

Credits

Joanne Zanella, Mary Hensel and Stefanie Picard. For further information please contact ORA at 508-999-8953