

Centers of Research Excellence in Science and Technology (CREST) and HBCU Research Infrastructure for Science and Engineering (RISE)

Program Solicitation

08-528

Replaces Document(s):

NSF 07-526



National Science Foundation

Directorate for Education & Human Resources
Division of Human Resource Development

Directorate for Engineering
Industrial Innovation and Partnerships

Letter of Intent Due Date(s) (*required*) (due by 5 p.m. proposer's local time):

February 05, 2008

Letters of Intent (CREST Centers & HBCU-RISE)

Full Proposal Deadline(s) (due by 5 p.m. proposer's local time):

April 08, 2008

Full Proposals (CREST Centers, CREST Partnership Supplements & HBCU-RISE)

April 10, 2008

Innovation through Institutional Integration

Full Proposal Target Date(s):

March 14, 2008

SBIR/STTR Diversity Collaborative Supplements (Spring 2008 Requests)

REVISION NOTES

In furtherance of the President's Management Agenda, NSF has identified programs that will offer proposers the option to utilize Grants.gov to prepare and submit proposals, or will require that proposers utilize Grants.gov to prepare and submit proposals. Grants.gov provides a single Government-wide portal for finding and applying for Federal grants online.

In response to this program solicitation, proposers may opt to submit proposals via Grants.gov or via the [NSF FastLane](#) system. In determining which method to utilize in the electronic preparation and submission of the proposal, please note the following:

Collaborative Proposals. All collaborative proposals submitted as separate submissions from multiple organizations must be submitted via the [NSF FastLane](#) system. Chapter II, Section D.3 of the Grant Proposal Guide provides additional information on collaborative proposals.

A new track for *Innovation through Institutional Integration* (I³) has been added. I³ challenges institutions to think strategically

about the creative integration of NSF-funded awards and is itself an integrative, cross-cutting effort within the Directorate for Education and Human Resources (EHR). For Fiscal Year 2008, proposals are being solicited in six EHR programs that advance I³ goals: CREST, ITEST, MSP, Noyce, RDE, and TCUP. All proposals submitted to I³ through these programs have a common due date and will be reviewed in competition with one another. Awards will be made to institutions of higher education (including two- and four-year colleges). Given the focus on institutional integration, an institution may submit only one proposal to the I³ competition in only one program.

SUMMARY OF PROGRAM REQUIREMENTS

General Information

Program Title:

Centers of Research Excellence in Science and Technology (CREST)
and HBCU Research Infrastructure for Science and Engineering (HBCU-RISE)

Synopsis of Program:

The Centers of Research Excellence in Science and Technology (CREST) program makes resources available to enhance the research capabilities of minority-serving institutions through the establishment of centers that effectively integrate education and research. CREST promotes the development of new knowledge, enhancements of the research productivity of individual faculty, and an expanded presence of students historically underrepresented in STEM disciplines. Awards are offered as new centers, supplements to existing centers, proposals for the CREST Historically Black Colleges and Universities Research Infrastructure for Science and Engineering (HBCU-RISE) initiative, or supplements to CREST/HBCU-RISE-eligible awardees for diversity collaboration in projects co-funded with NSF's Small Business Innovation Research and Small Business Technology Transfer (SBIR/STTR) programs, which are administered by NSF's Directorate for Engineering.

Innovation through Institutional Integration (I³) projects enable institutions to think and act strategically about the creative integration of NSF-funded awards, with particular emphasis on awards managed through programs in the Directorate for Education and Human Resources (EHR), but not limited to those awards. For Fiscal Year 2008, proposals are being solicited in six EHR programs that advance I³ goals: CREST, ITEST, MSP, Noyce, RDE, and TCUP.

Cognizant Program Officer(s):

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Applicable Catalog of Federal Domestic Assistance (CFDA) Number(s):

- 47.041 --- Engineering
- 47.076 --- Education and Human Resources

Award Information

Anticipated Type of Award: Standard Grant or Continuing Grant or Cooperative Agreement

Estimated Number of Awards: 20 to 40 - Up to 5 CREST center Cooperative Agreements, up to 10 CREST partnership supplements, up to 5 HBCU-RISE standard grants, up to 10 CREST SBIR/STTR diversity collaborative supplements. For the

Innovation through Institutional Integration competition, up to 10 continuing awards in this cross-divisional effort will be made, pending availability of funds.

Anticipated Funding Amount: \$22,500,000 - \$12,500,000 in FY 2008 pending the availability of funds for all CREST and HBCU-RISE awards - \$5,000,000 for CREST centers (\$1,000,000 1st year commitments), \$1,000,000 for CREST partnership supplements and \$5,000,000 for HBCU-RISE grants. Up to \$750,000 from CREST and \$750,000 from SBIR for co-funded SBIR/STTR diversity collaborative supplements. \$10,000,000 over 5 years for Innovation through Institutional Integration projects which are being requested across multiple EHR programs, pending the availability of funds.

Eligibility Information

Organization Limit:

- **CREST** - CREST proposals are invited from minority-serving institutions of higher education in the United States. This denotes institutions that have enrollments of 50% or more of members of minority groups underrepresented among those holding advanced degrees in science and engineering fields: Alaskan Natives, African Americans, American Indians, Hispanic Americans, and Native Pacific Islanders. Preference will be given to institutions with demonstrated strengths in NSF-supported fields, as evidenced by a developing capacity to offer doctoral degrees in one or more science, technology, engineering, or mathematics disciplines. Institutions must also demonstrate a willingness and capacity to serve as a resource center in one or more research areas, as well as possess a demonstrated commitment and track record in enrolling and graduating minority scientists and engineers, and strong collaborations in the proposed field of research. Priority consideration will be given to science and engineering disciplines or research areas where minorities are significantly underrepresented.

HBCU-RISE - HBCU-RISE proposals are invited from Historically Black Colleges and Universities that offer doctoral degrees in science, technology, engineering and mathematics disciplines.

SBIR /STTR - SBIR/STTR diversity collaborative supplement proposals are invited from current SBIR/STTR grantees and their CREST or HBCU-RISE institution partners.

I³ - Eligibility for Innovations through Institutional Integration (I³) is limited to institutions of higher education (including two- and four-year colleges) located and accredited in the US, acting on behalf of their faculty members.

PI Limit:

Principal investigators for CREST, HBCU-RISE, and SBIR/STTR awards must be United States citizens or nationals, or permanent resident aliens of the United States. PIs must also be employed by a CREST, HBCU-RISE or SBIR/STTR-eligible institution.

The Principal Investigator for an Innovation through Institutional Integration (I³) proposal must be the university provost or equivalent, unless the proposal is exclusively for I³ STEM educational or related research.

Limit on Number of Proposals per Organization:

Only one CREST center proposal may be submitted per eligible institution. An institution may have only one active CREST award, irrespective of focus area. Centers that have completed two prior, consecutive 5-year CREST Cooperative Agreements may not re-compete in the CREST centers competition. New research teams from former awardee institutions may submit proposals in disciplinary areas that are completely different from those of the previous award(s). Only one HBCU-RISE proposal may be submitted per eligible institution. An institution may have only one active HBCU-RISE award.

For Fiscal Year 2008, proposals are being solicited in six EHR programs that advance I³ goals: CREST, ITEST, MSP, Noyce, RDE, and TCUP. Given the focus on institutional integration, an institution may submit only one proposal to the I³ competition in only one program.

Limit on Number of Proposals per PI:

Eligible individuals may be listed as the principal investigator or co-principal investigator on only one CREST or HBCU-RISE proposal.

1³ - None specified.

Proposal Preparation and Submission Instructions

A. Proposal Preparation Instructions

- **Letters of Intent:** Submission of Letters of Intent is required. Please see the full text of this solicitation for further information.
- **Preliminary Proposal Submission:** Not Applicable
- **Full Proposals:**
 - Full Proposals submitted via FastLane: NSF Proposal and Award Policies and Procedures Guide, Part I: Grant Proposal Guide (GPG) Guidelines apply. The complete text of the GPG is available electronically on the NSF website at: http://www.nsf.gov/publications/pub_summ.jsp?ods_key=gpg.
 - 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/bfa/dias/policy/docs/grantsgovguide.pdf/>)

B. Budgetary Information

- **Cost Sharing Requirements:** Cost Sharing is not required under this solicitation.
- **Indirect Cost (F&A) Limitations:** Not Applicable
- **Other Budgetary Limitations:** Not Applicable

C. Due Dates

- **Letter of Intent Due Date(s) (required)** (due by 5 p.m. proposer's local time):

February 05, 2008

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- **Full Proposal Deadline(s)** (due by 5 p.m. proposer's local time):

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Full Proposals (CREST Centers, CREST Partnership Supplements & HBCU-RISE)

April 10, 2008

Innovation through Institutional Integration

- **Full Proposal Target Date(s):**

March 14, 2008

SBIR/STTR Diversity Collaborative Supplements (Spring 2008 Requests)

Proposal Review Information Criteria

Merit Review Criteria: National Science Board approved criteria. Additional merit review considerations apply. Please see the full text of this solicitation for further information.

Award Administration Information

Award Conditions: Standard NSF award conditions apply

Reporting Requirements: Standard NSF reporting requirements apply

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I. INTRODUCTION

The Division of Human Resource Development (HRD) has primary responsibility within NSF for broadening participation by all individuals in science and engineering. HRD programs reflect NSF's commitment to developing the resources of the scientific and technological community as a whole and ensuring an adequately trained research and development workforce. To meet the challenges presented by the nation's ever-increasing needs in science and technology, CREST and HBCU-RISE support efforts to strengthen the science and engineering research and education capabilities of minority-serving institutions. In doing so, these programs help to fulfill an important outcome goal of the NSF Strategic Plan: cultivating a world-class, broadly inclusive science and engineering workforce and expanded scientific literacy of all citizens.

HRD programs, including Research on Gender in Science and Engineering, Research in Disabilities Education, Tribal Colleges and Universities Program, Historically Black Colleges and Universities Undergraduate Program, Louis Stokes Alliances for Minority Participation, Alliances for Graduate Education and the Professoriate, and Centers of Research Excellence in Science and Technology, provide coordinated and integrated approaches to developing and leveraging individual talents and institutional infrastructures. Managed synergistically, these programs enable successful transitions from associate and baccalaureate-level study to the attainment of masters and doctoral degrees and substantially increase the number of underrepresented minorities, women, and persons with disabilities well prepared for the science and engineering

research, education, and workforce of the future.

Innovation through Institutional Integration (I³) projects enable institutions to think and act strategically about the creative integration of NSF-funded awards, with particular emphasis on awards managed through programs in the Directorate for Education and Human Resources (EHR), but not limited to those awards. For Fiscal Year 2008, proposals are being solicited in six EHR programs that advance I³ goals: CREST, ITEST, MSP, Noyce, RDE, and TCUP.

II. PROGRAM DESCRIPTION

This solicitation requests proposals for: (1) new CREST centers; (2) supplements for partnerships applied to existing CREST awards; (3) HBCU Research Infrastructure for Science & Engineering (HBCU-RISE) proposals; (4) supplements for diversity collaboration for projects co-funded with NSF's Small Business Innovation Research and Small Business Technology Transfer (SBIR/STTR) programs, which are administered by NSF's Directorate for Engineering; and (5) new projects in the Directorate for Education and Human Resources track: Innovation through Institutional Integration (I³).

1. CREST centers. CREST center proposals seek to integrate education and research in an effective manner. In particular, CREST promotes the development of new knowledge, enhancements of research productivity by faculty, and increased diversity in science and engineering disciplines. CREST provides multi-year support for eligible minority-serving institutions that demonstrate a strong research and education base, a compelling vision for research infrastructure improvement, as well as a comprehensive plan with the necessary elements to achieve and sustain national competitiveness in a clearly defined and focused area of science or engineering research. CREST center awards are typically 60-month Cooperative Agreements of up to \$5 million. These funds are used to support science and technology infrastructure improvements identified by the institution as being critical to its future research and development competitiveness.

Proposal Structure: CREST proposals consist of the center proposal and its associated research subprojects. The center proposal includes discussion of the applicant's overall plan for improving the status of science and engineering research and training and for increasing participation in science and engineering by a diverse student population, as codified by the center's unifying theme or focus. This center overview should present a clear explanation of the proposed improvement plan from a scientific, educational and administrative or fiscal point of view. The center proposal must also contain a succinct project summary, which provides an overview of the proposed activities and clearly delineates the National Science Board criteria of Intellectual Merit and Broader Impacts.

Research Subprojects: The project summary also describes the synergy anticipated by the choice of at least 3 but no more than 5 subprojects. Each proposed subproject will contain all the elements of a standard NSF research proposal but will also contain a copy of the center project summary described above. Each subproject proposal must be complete and will be independently evaluated following the standard NSF merit review process and NSB criteria. In addition, each subproject proposal will contain a one-page Subproject Relevancy Statement summarizing the subproject's importance to the overall proposal plan, including synergy with the other subproject proposals, and showing how it supports the overall goals and objectives of the center proposal.

Expectations for CREST Proposals: (i) In addition to progress reports required annually via NSF's FastLane system, awardees will be expected to contribute reports on project participants, publications, outreach efforts, patents, proposals, leveraged funding efforts and similar data to the CREST data collection system. Awardees may also expect site visits and reverse site visits by NSF-appointed evaluators per the particular terms of the award's Cooperative Agreement. Midpoint (30th- to 48th-month) reviews of awardees' progress are also typical. (ii) Each center should describe an evaluation plan to track progress and strengthen cooperative efforts. In addition, each center will be required to participate in a program-level evaluation to assess outcomes and the program's contributions to advancing the science and engineering research and education capabilities of minority-serving institutions. CREST awardees must be prepared to serve as a resource center increasing the research competitiveness of scientists and engineers affiliated with the center. (iii) Faculty at other institutions who participate in CREST-supported research and contribute to the achievement of CREST project objectives are eligible for funding through the CREST center with which they are affiliated. (iv) Each center shall convene, at least annually, an external advisory group or committee. The advisors must include representatives from those served by the center (e.g., academic institutions, industry, state and local agencies, national laboratories) and reflect the diversity of participants inherent in the citizenry of the United States. The function of the external advisory group is to provide guidance and advice to the center as well as to ensure that the center's activities are consistent with its vision, goals and objectives. Those with a financial, institutional, or collaborative connection to the center may not serve as members of the external advisory group. (v) Each center shall also have an internal steering committee to include the PI, co-PIs and other applicable stakeholders.

2. CREST partnership supplements. CREST partnership supplements support the establishment or strengthening of partnerships and collaborations between CREST centers and nationally recognized research centers in areas of mutual research interest and high priority for the CREST institution. As with CREST center proposals, CREST partnership supplements are designed to facilitate self-improvement. Responsibility for project development and execution rests with the proposing institution and the CREST project director. Support may be requested for activities that have a direct positive influence on the competitiveness of participating scientists and engineers and the quality of the institution's research and

training. Supportable activities may include, but are not limited to: exploratory research projects; acquisition of materials, supplies, research equipment and instrumentation; hiring nationally competitive scientists and/or engineers; visiting scientists and engineers as short- or long-term consultants; faculty attendance at professional meetings and seminars; faculty sabbaticals and exchange programs; undergraduate and graduate research activities; development of outreach and other enhancement programs with neighboring institutions; and strengthening technical support personnel. The benefits to both parties in the proposed collaboration as a logical or necessary augmentation of the existing CREST's activities must be clearly articulated.

3. Historically Black Colleges and Universities Research Infrastructure for Science and Engineering (HBCU-RISE).

HBCU-RISE proposals support the development of research capability at HBCUs that offer doctoral degrees in science and engineering disciplines. Such activities include, but are not limited to: faculty release time, technical support for research, faculty professional development, acquisition or upgrading of research equipment, collaborative research efforts with partner universities and national laboratories. Supported projects must have a unifying research focus in one of the research areas supported by NSF, a direct connection to the long-term plans of the host department(s), the institutional mission, and plans for expanding institutional research capacity as well as increasing the production of doctoral students. HBCU-RISE funding may, for example, be used to support competitive levels of start-up funding for outstanding new faculty hires with research interests related to the project, or acquire key equipment and instruments, including high-performance computing and networking capabilities. HBCU-RISE support should not replace other available federal, state, or institutional resources and should add significant value to the existing institutional strategic plan. Each HBCU-RISE project should describe an evaluation plan to track progress and strengthen cooperative efforts. In addition, each project will be required to participate in a program-level evaluation to assess outcomes and the program's contributions to advancing the science and engineering research and education capabilities of minority-serving institutions. As with CREST proposals, each HBCU-RISE project shall convene, at least annually, an external advisory group or committee. The function of the external advisory group is to provide guidance and advice to the HBCU-RISE project director and to ensure that the project's activities are consistent with its vision, goals and objectives. Potential members of the project's external advisory group should be identified in the proposal.

4. Small Business Innovation Research and Small Business Technology Transfer (SBIR/STTR) supplemental funding for diversity collaborations.

SBIR/STTR supplements seek to promote partnerships between academe and the small-business community. In particular, SBIR/STTR Phase II grantees may partner with CREST/HBCU-RISE institutions with the intent of developing the scientific or engineering underpinnings of the SBIR Phase II technology. As such, it is important that the SBIR/STTR supplemental project be related to the research areas for which the institution is receiving CREST/HBCU-RISE support. For FY 2008, the target date for these proposals is March 14, 2008. Inquiries and proposals to this track are not submitted to CREST but directly to SBIR/STTR in the Directorate for Engineering. See, for example, http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5527&org=NSF and http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13371&org=NSF for details on SBIR/STTR.

Additional CREST Awards Information

Support may be requested for activities that positively impact the quality of research training and the research preparedness of graduate students in science and engineering. Multiple-investigator projects are encouraged. Collaborative efforts between universities, industry, other research universities or centers, and federal laboratories are encouraged. Projects should be designed to enable awardee institutions to enhance the integration of education and research.

CREST centers or supplement proposals may be organized around the development of individual scientists or engineers, one or more science or engineering departments or equivalent units, or interdisciplinary and multidisciplinary research areas. It is expected, however, that the CREST target group(s) will possess the potential to achieve national research competitiveness over the five-year implementation period. In identifying the members of this target group, NSF expects that the proposing institution strongly encourages participation by underrepresented minorities, women, and persons with disabilities. Whether the proposed activity is considered competitive will be determined by merit review of the appropriateness and relevance of the improvement strategies to CREST program goals.

Project activities supported by NSF may also include cooperative efforts between the applicant institution and industry, federally funded laboratories, or other national, state, local, or regional research and development institutions. An institution's CREST request may include support for academic, state, for-profit, and non-profit organizations. It may also include individuals employed by such organizations both inside and outside the CREST institution. Cooperative programs among eligible institutions as well as cooperative programs between eligible institutions and other entities are eligible for CREST support. CREST-supported projects must contribute to and support the achievement of CREST objectives outlined in the synopsis for this solicitation. CREST funding must add substantial, measurable value to the existing science and technology research capability in areas of high institutional priority and demonstrate strong potential to generate sustained non-CREST funding from federal, state, or private-sector sources. In addition, all activities carried out under a CREST award are subject to the restrictions concerning eligible science and engineering disciplines and activities detailed in the NSF Grant Proposal Guide.

5. Innovation through Institutional Integration (I³) Creativity, connectivity, integration, and synergy are keys to innovation and to developing human and institutional capacity to full potential. In both research and education, it is the forging of new links between ideas or methodologies that were previously disparate that frequently paves the way for innovation. When institutions optimize the benefits to be derived from the creative integration of intellectual perspectives or related domains of

work, they create important opportunities for making progress on some of the most important scientific, technological, and educational challenges of our time. On individual campuses across the nation, for example, significant synergistic potential can be ignited when scholars and educators in related disciplines to work together. Similarly, NSF awardees can harness new synergies by working together with other NSF-funded projects on their own campus or in close geographic proximity.

Innovation through Institutional Integration challenges institutions to think strategically about the creative integration of NSF-funded awards towards a whole that exceeds the sum of its parts. Although there is particular emphasis in I³ on awards managed by programs in the Directorate for Education and Human Resources (EHR), institutional integration is not limited only to EHR awards but can include other NSF awards with a STEM educational focus. Two or more institutions in geographic proximity might, for example, partner to bridge existing NSF-funded awards on their campuses (e.g., IGERT, LSAMP, RDE, ATE, CREST, REU) to broaden participation in STEM fields and enhance undergraduate research opportunities. Additional connections might be made internationally with faculty or students outside the United States who would add their considerable intellectual and cultural perspectives. As another example, an institution might implement new policies, procedures, or mechanisms that encourage and value synergistic efforts among existing NSF-funded awards (e.g., GK-12, MSP, Noyce, REESE, DRK-12) and with other institutional units to better understand and enhance seamlessness across critical educational junctures, perhaps infusing innovative approaches to cyber-learning.

This effort has the following interrelated goals:

- Increase synergy and collaboration across NSF-funded projects and within/between institutions, towards an educational environment where artificial boundaries are significantly reduced; and the student experience is more fully integrated;
- Expand and deepen the footprints of NSF-funded projects and enhance their sustainability;
- Promote innovative programming, policies, and practices to encourage the integration of STEM research and education;
- Provide additional avenues to broaden participation by those underserved in STEM research and education, especially underrepresented minorities, women, and people with disabilities; attend to seamless transitions across critical educational junctures; and/or provide more effectively for a globally engaged workforce.
- Encourage STEM educational or related research in domains that hold promise for promoting intra- or inter-institutional integration and broader impacts.

Excellence or its potential exists everywhere, throughout the nation and in all types and sizes of institutions of higher education. Proposals that facilitate either (a) inter-institutional or (b) intra-institutional efforts are encouraged. Proposals may be submitted by (a) a single institution to address intra-institutional goals only or (b) an institution acting on behalf of an institutional partnership to address inter-institutional goals.

Proposals are expected to incorporate a depth and quality of creative, coherent, and strategic actions that extend beyond commonplace approaches to normal institutional operations. Proposals may also be submitted for research on institutional integration, commensurate with the goals above.

Innovation through Institutional Integration (I³) is a cross-divisional effort in the Directorate for Education and Human Resources (EHR). For Fiscal Year 2008, proposals are being solicited in six EHR programs that advance I³ goals: CREST, ITEST, MSP, Noyce, RDE, and TCUP. All proposals submitted to I³ through these programs have a common due date and will be reviewed in competition with one another.

III. AWARD INFORMATION

CREST award instruments, duration, and amounts vary among the CREST program components.

- Up to five **CREST centers** awards (new centers and competitive renewals with their respective research subprojects) are anticipated in the current review cycle. CREST center awards are for 60 months at up to \$1,000,000 annually (i.e., a maximum of \$5,000,000). Center awards are made as Cooperative Agreements. The progress and plans of each center will be reviewed by NSF annually, prior to approving continued NSF support. A CREST center nearing the completion of its initial five years of funding may submit a competing renewal proposal for an additional five years of support. The renewal proposal will undergo merit review alongside proposals for new CREST centers. Accordingly, the existing centers' achievements and future plans will be evaluated comprehensively relative to progress and direction and weighed against the competition for available program funds. Merit review will determine

if the center is meeting its goals and objectives as originally proposed as well as the goals and objectives of the CREST program. Centers successful in passing this review will be renewed for another five years, commencing at the beginning of the sixth year. Renewed centers will continue to be monitored by NSF at least every 18 months. Centers that do not pass this review may have their level of funding reduced or may be terminated. Individual centers may not receive more than 10 years of CREST support.

- Up to 10 **CREST partnership supplements** will be made for a maximum amount of \$100,000 per supplement, in amounts that vary with need and are subject to the availability of funds. A supplement will be an amendment to the existing Cooperative Agreement.
- Up to five **HBCU-RISE awards** will be made during this award cycle. Awards will not exceed \$1,000,000 during a three-year period. HBCU-RISE awards will be managed through standard grants. An institution may only have one active HBCU-RISE award.
- Up to 10 **CREST SBIR/STTR diversity collaborative supplements** will be made during this award cycle. Awards will be made to eligible CREST and HBCU-RISE institutions. SBIR/STTR award amounts will not exceed \$150,000 in NSF support.
- **Innovation through Institutional Integration Projects:** Awards for Innovation through Institutional Integration projects will be made for durations of up to five years, with years four and five dependent on performance, in amounts of up to \$200,000 per year, for a total of up to \$1 million over 5 years. Innovation through Institutional Integration awards will be made as continuing grants.

The estimated CREST, HBCU-RISE, SBIR/STTR and Innovation through Institutional Integration budgets, number of awards and average award size and duration are subject to the availability of funds.

IV. ELIGIBILITY INFORMATION

Organization Limit:

- **CREST** - CREST proposals are invited from minority-serving institutions of higher education in the United States. This denotes institutions that have enrollments of 50% or more of members of minority groups underrepresented among those holding advanced degrees in science and engineering fields: Alaskan Natives, African Americans, American Indians, Hispanic Americans, and Native Pacific Islanders. Preference will be given to institutions with demonstrated strengths in NSF-supported fields, as evidenced by a developing capacity to offer doctoral degrees in one or more science, technology, engineering, or mathematics disciplines. Institutions must also demonstrate a willingness and capacity to serve as a resource center in one or more research areas, as well as possess a demonstrated commitment and track record in enrolling and graduating minority scientists and engineers, and strong collaborations in the proposed field of research. Priority consideration will be given to science and engineering disciplines or research areas where minorities are significantly underrepresented.

HBCU-RISE - HBCU-RISE proposals are invited from Historically Black Colleges and Universities that offer doctoral degrees in science, technology, engineering and mathematics disciplines.

SBIR /STTR - SBIR/STTR diversity collaborative supplement proposals are invited from current SBIR/STTR grantees and their CREST or HBCU-RISE institution partners.

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Principal investigators for CREST, HBCU-RISE, and SBIR/STTR awards must be United States citizens or nationals, or permanent resident aliens of the United States. PIs must also be employed by a CREST, HBCU-RISE or SBIR/STTR-eligible institution.

The Principal Investigator for an Innovation through Institutional Integration (I³) proposal must be the university provost or equivalent, unless the proposal is exclusively for I³ STEM educational or related research.

Limit on Number of Proposals per Organization:

Only one CREST center proposal may be submitted per eligible institution. An institution may have only one active CREST award, irrespective of focus area. Centers that have completed two prior, consecutive 5-year CREST Cooperative Agreements may not re-compete in the CREST centers competition. New research teams from former awardee institutions may submit proposals in disciplinary areas that are completely different from those of the previous award(s). Only one HBCU-RISE proposal may be submitted per eligible institution. An institution may have only one active HBCU-RISE award.

For Fiscal Year 2008, proposals are being solicited in six EHR programs that advance I³ goals: CREST, ITEST, MSP, Noyce, RDE, and TCUP. Given the focus on institutional integration, an institution may submit only one proposal to the I³ competition in only one program.

Limit on Number of Proposals per PI:

Eligible individuals may be listed as the principal investigator or co-principal investigator on only one CREST or HBCU-RISE proposal.

I³ - None specified.

Additional Eligibility Info:

V. PROPOSAL PREPARATION AND SUBMISSION INSTRUCTIONS

A. Proposal Preparation Instructions

Letters of Intent(required):

Letters of intent are required for CREST Center and HBCU-RISE full proposals but not for CREST partnership supplement proposals. CREST partnership supplements are expected to abide fully with the information required by FastLane for supplemental proposals. SBIR/STTR diversity collaboration proposals are submitted directly to the SBIR/STTR program following the guidelines of that program solicitation. Letters of intent are not required for I³.

CREST/HBCU-RISE letters of intent should not be considered draft proposals or pre-proposals. CREST program staff will not provide feedback on the appropriateness or quality of proposals or encourage full proposals on the basis of the letter of intent. The letter of intent should be submitted via the letters of intent module in FastLane, specifying either CREST or HBCU-RISE and completing as much of the FastLane letter of intent template as applicable. Further, the letter of intent should indicate the lead institution and principals of the proposed work, including self certification that the lead institution complies with the program's conditions for PI and institutional eligibility detailed in the Eligibility Information section of this solicitation. The letter of intent should contain sufficient details for each research subproject (discipline, subdiscipline, specialty or focus area) to permit identification of appropriate technical reviewers, but not a lengthy description of the research, education and operational plans of the proposed center. The letter of intent should also include two suggested reviewers and contact information for each research sub-project.

Eligible parties intending to submit a full proposal to CREST or HBCU-RISE for FY 2008 are strongly encouraged to participate in Webinars that will be webcast after the release of this solicitation. We will have as many sessions as we have interested participants until the letter of intent deadline. Contact the CREST staff listed in this solicitation to register your attendance in one or more of these Webinars.

Letter of Intent Preparation Instructions:

When submitting a Letter of Intent through FastLane in response to this Program Solicitation please note the conditions outlined below:

- Sponsored Projects Office (SPO) Submission is required when submitting Letters of Intent
- A Minimum of 0 and Maximum of 4 Other Senior Project Personnel are allowed

- A Minimum of 0 and Maximum of 4 Other Participating Organizations are allowed
- Research Area 1 is required when submitting Letters of Intent
- Research Area 2 is required when submitting Letters of Intent
- Research Area 3-5 is required when submitting Letters of Intent
- Submission of multiple Letters of Intent is not allowed

Full Proposal Preparation Instructions: Proposers may opt to submit proposals in response to this Program Solicitation via Grants.gov or via the NSF FastLane system.

- Full proposals submitted via FastLane: Proposals submitted in response to this program solicitation should be prepared and submitted in accordance with the general guidelines contained in the NSF Grant Proposal Guide (GPG). The complete text of the GPG is available electronically on the NSF website at: http://www.nsf.gov/publications/pub_summ.jsp?ods_key=gpg. Paper copies of the GPG may be obtained from the NSF Publications Clearinghouse, telephone (703) 292-7827 or by e-mail from pubs@nsf.gov. Proposers are reminded to identify this program solicitation number in the program solicitation block on the NSF Cover Sheet For Proposal to the National Science Foundation. Compliance with this requirement is critical to determining the relevant proposal processing guidelines. Failure to submit this information may delay processing.
- Full proposals submitted via Grants.gov: Proposals submitted in response to this program solicitation via Grants.gov should be prepared and submitted in accordance with the NSF Grants.gov Application Guide: A Guide for the Preparation and Submission of NSF Applications via Grants.gov. The complete text of the NSF Grants.gov Application Guide is available on the Grants.gov website and on the NSF website at: (<http://www.nsf.gov/bfa/dias/policy/docs/grantsgovguide.pdf>). To obtain copies of the Application Guide and Application Forms Package, click on the Apply tab on the Grants.gov site, then click on the Apply Step 1: Download a Grant Application Package and Application Instructions link and enter the funding opportunity number, (the program solicitation number without the NSF prefix) and press the Download Package button. Paper copies of the Grants.gov Application Guide also may be obtained from the NSF Publications Clearinghouse, telephone (703) 292-7827 or by e-mail from pubs@nsf.gov.

In determining which method to utilize in the electronic preparation and submission of the proposal, please note the following:

Collaborative Proposals. All collaborative proposals submitted as separate submissions from multiple organizations must be submitted via the NSF FastLane system. Chapter II, Section D.3 of the Grant Proposal Guide provides additional information on collaborative proposals.

Proper Institutional Review Board (IRB) documentation or certification on the use of human subjects, vertebrate and invertebrate animals, and outcomes of prior NSF support, as applicable, by the principals of the proposed center should be included with the proposal at the time of submission, or the absence of such documentation explained. Failure to self-declare in this manner may result in the proposal's decline or return without review.

For CREST Centers:

Research Subprojects: The narrative of the center proposal is limited to 15 pages; informative, but concise individual subproject narratives of up to 15 pages each are allowed, but lengths of no more than 5 to 10 pages each are strongly recommended. The subproject proposals are inserted, successively, in the Special Information and Supplementary Documents section of the center proposal. For Grants.gov users, supplementary documents should be attached in Field 11 of the R&R Other Project Information Form.

For INNOVATION THROUGH INSTITUTIONAL INTEGRATION (I³) PROJECTS:

The proposal should articulate the project's vision, goals, and anticipated outcomes and describe how the project will achieve them. It is expected that the plan of work will impact participating NSF awards, as well as other relevant parts of the institution (s). The proposal should include a management/governance plan that describes who is responsible for what, a timeline, and an evaluation plan. All proposals must clearly demonstrate that the submitting team has the capability to manage the project, organize the work, and meet deadlines. The proposed evaluation plan should address the effectiveness of the strategies employed for institutional integration, including any institutional policies, practices, or mechanisms developed and implemented under this effort; and, as appropriate, provide for the evaluation of any products produced under this effort, as well as for the collection and analyses of data that track increases in STEM student recruitment and retention (against baseline data) and other measures of student progress (against comparable baseline data). In addition to project-level evaluation, awardees will be required to participate in an NSF data collection system (to be developed) that will track outcomes and impacts over time, as well as in an independent, multi-method program-level evaluation to assess the effectiveness of the I³ investment.

Proposals for I³ research should discuss the current state of knowledge relevant to the project. This brief literature review should clearly inform the proposed research. The project description should identify the methods the project will use and explain why those methods are appropriate to the questions that the proposal addresses. Methodologies must be matched with strategic research questions, and the logic among research question, method, analysis, inference, and evidence should be well articulated.

B. Budgetary Information

Cost Sharing: Cost sharing is not required under this solicitation.

C. Due Dates

- **Letter of Intent Due Date(s) (required)** (due by 5 p.m. proposer's local time):

February 05, 2008

Letters of Intent (CREST Centers & HBCU-RISE)

- **Full Proposal Deadline(s)** (due by 5 p.m. proposer's local time):

April 08, 2008

Full Proposals (CREST Centers, CREST Partnership Supplements & HBCU-RISE)

April 10, 2008

Innovation through Institutional Integration

- **Full Proposal Target Date(s):**

March 14, 2008

SBIR/STTR Diversity Collaborative Supplements (Spring 2008 Requests)

D. FastLane/Grants.gov Requirements

- **For Proposals Submitted Via FastLane:**

Detailed technical instructions regarding the technical aspects of preparation and submission via FastLane are available at: <https://www.fastlane.nsf.gov/a1/newstan.htm>. For FastLane user support, call the FastLane Help Desk at 1-800-673-6188 or e-mail fastlane@nsf.gov. The FastLane Help Desk answers general technical questions related to the use of the FastLane system. Specific questions related to this program solicitation should be referred to the NSF program staff contact(s) listed in Section VIII of this funding opportunity.

Submission of Electronically Signed Cover Sheets. The Authorized Organizational Representative (AOR) must electronically sign the proposal Cover Sheet to submit the required proposal certifications (see Chapter II, Section C of the Grant Proposal Guide for a listing of the certifications). The AOR must provide the required electronic certifications within five working days following the electronic submission of the proposal. Further instructions regarding this process are available on the FastLane Website at: <https://www.fastlane.nsf.gov/fastlane.jsp>.

For Proposals Submitted Via Grants.gov:

Before using Grants.gov for the first time, each organization must register to create an institutional profile. Once registered, the applicant's organization can then apply for any federal grant on the Grants.gov website. The Grants.gov's Grant Community User Guide is a comprehensive reference document that provides technical information about Grants.gov. Proposers can download the User Guide as a Microsoft Word document or as a PDF document.

The Grants.gov User Guide is available at: <http://www.grants.gov/CustomerSupport>. In addition, the NSF Grants.gov Application Guide provides additional technical guidance regarding preparation of proposals via Grants.gov. For Grants.gov user support, contact the Grants.gov Contact Center at 1-800-518-4726 or by email: support@grants.gov. The Grants.gov Contact Center answers general technical questions related to the use of Grants.gov. Specific questions related to this program solicitation should be referred to the NSF program staff contact(s) listed in Section VIII of this solicitation.

Submitting the Proposal: Once all documents have been completed, the Authorized Organizational Representative (AOR) must submit the application to Grants.gov and verify the desired funding opportunity and agency to which the application is submitted. The AOR must then sign and submit the application to Grants.gov. The completed application will be transferred to the NSF FastLane system for further processing.

VI. NSF PROPOSAL PROCESSING AND REVIEW PROCEDURES

Proposals received by NSF are assigned to the appropriate NSF program and, if they meet NSF proposal preparation requirements, for review. All proposals are carefully reviewed by a scientist, engineer, or educator serving as an NSF Program Officer, and usually by three to ten other persons outside NSF who are experts in the particular fields represented by the proposal. These reviewers are selected by Program Officers charged with the oversight of the review process. Proposers are invited to suggest names of persons they believe are especially well qualified to review the proposal and/or persons they would prefer not review the proposal. These suggestions may serve as one source in the reviewer selection process at the Program Officer's discretion. Submission of such names, however, is optional. Care is taken to ensure that reviewers have no conflicts with the proposer.

A. NSF Merit Review Criteria

All NSF proposals are evaluated through use of the two National Science Board (NSB)-approved merit review criteria: intellectual merit and the broader impacts of the proposed effort. In some instances, however, NSF will employ additional criteria as required to highlight the specific objectives of certain programs and activities.

The two NSB-approved merit review criteria are listed below. The criteria include considerations that help define them. These considerations are suggestions and not all will apply to any given proposal. While proposers must address both merit review criteria, reviewers will be asked to address only those considerations that are relevant to the proposal being considered and for which the reviewer is qualified to make judgements.

What is the intellectual merit of the proposed activity?

How important is the proposed activity to advancing knowledge and understanding within its own field or across different fields? How well qualified is the proposer (individual or team) to conduct the project? (If appropriate, the reviewer will comment on the quality of the prior work.) To what extent does the proposed activity suggest and explore creative, original, or potentially transformative concepts? How well conceived and organized is the proposed activity? Is there sufficient access to resources?

What are the broader impacts of the proposed activity?

How well does the activity advance discovery and understanding while promoting teaching, training, and learning? How well does the proposed activity broaden the participation of underrepresented groups (e.g., gender, ethnicity, disability, geographic, etc.)? To what extent will it enhance the infrastructure for research and education, such as facilities, instrumentation, networks, and partnerships? Will the results be disseminated broadly to enhance scientific and technological understanding? What may be the benefits of the proposed activity to society?

Examples illustrating activities likely to demonstrate broader impacts are available electronically on the NSF website at: <http://www.nsf.gov/pubs/gpg/broaderimpacts.pdf>.

NSF staff will give careful consideration to the following in making funding decisions:

Integration of Research and Education

One of the principal strategies in support of NSF's goals is to foster integration of research and education through the programs, projects, and activities it supports at academic and research institutions. These institutions provide abundant opportunities where individuals may concurrently assume responsibilities as researchers, educators, and students and where all can engage in joint efforts that infuse education with the excitement of discovery and enrich research through the diversity of learning perspectives.

Integrating Diversity into NSF Programs, Projects, and Activities

Broadening opportunities and enabling the participation of all citizens -- women and men, underrepresented minorities, and persons with disabilities -- is essential to the health and vitality of science and engineering. NSF is committed to this principle

of diversity and deems it central to the programs, projects, and activities it considers and supports.

Additional Review Criteria:

In addition to the two NSF criteria for Intellectual Merit and Broader Impacts, special review criteria for I³ are:

- o The extent to which the proposed project addresses the interrelated goals for institutional integration;
- o The degree of innovation in the proposed project as evidenced by a depth and quality of creative, coherent, and strategic actions that extend beyond commonplace approaches to normal institutional operations.
- o The extent to which the proposed project addresses programming, policies, and practices commensurate with the sustained institutional change needed to seed and nurture appropriate, synergistic relationships among discrete NSF awards.

B. Review and Selection Process

Proposals submitted in response to this program solicitation will be reviewed by Ad hoc Review and/or Panel Review.

Reviewers will be asked to formulate a recommendation to either support or decline each proposal. The Program Officer assigned to manage the proposal's review will consider the advice of reviewers and will formulate a recommendation.

After scientific, technical and programmatic review and consideration of appropriate factors, the NSF Program Officer recommends to the cognizant Division Director whether the proposal should be declined or recommended for award. NSF is striving to be able to tell applicants whether their proposals have been declined or recommended for funding within six months. The time interval begins on the date of receipt. The interval ends when the Division Director accepts the Program Officer's recommendation.

A summary rating and accompanying narrative will be completed and submitted by each reviewer. In all cases, reviews are treated as confidential documents. Verbatim copies of reviews, excluding the names of the reviewers, are sent to the Principal Investigator/Project Director by the Program Officer. In addition, the proposer will receive an explanation of the decision to award or decline funding.

In all cases, after programmatic approval has been obtained, the proposals recommended for funding will be forwarded to the Division of Grants and Agreements for review of business, financial, and policy implications and the processing and issuance of a grant or other agreement. Proposers are cautioned that only a Grants and Agreements Officer may make commitments, obligations or awards on behalf of NSF or authorize the expenditure of funds. No commitment on the part of NSF should be inferred from technical or budgetary discussions with a NSF Program Officer. A Principal Investigator or organization that makes financial or personnel commitments in the absence of a grant or cooperative agreement signed by the NSF Grants and Agreements Officer does so at their own risk.

VII. AWARD ADMINISTRATION INFORMATION

A. Notification of the Award

Notification of the award is made to *the submitting organization* by a Grants Officer in the Division of Grants and Agreements. Organizations whose proposals are declined will be advised as promptly as possible by the cognizant NSF Program administering the program. Verbatim copies of reviews, not including the identity of the reviewer, will be provided automatically to the Principal Investigator. (See Section VI.B. for additional information on the review process.)

B. Award Conditions

An NSF award consists of: (1) the award letter, which includes any special provisions applicable to the award and any numbered amendments thereto; (2) the budget, which indicates the amounts, by categories of expense, on which NSF has based its support (or otherwise communicates any specific approvals or disapprovals of proposed expenditures); (3) the proposal referenced in the award letter; (4) the applicable award conditions, such as Grant General Conditions (GC-1); * or Federal Demonstration Partnership (FDP) Terms and Conditions * and (5) any announcement or other NSF issuance that may be incorporated by reference in the award letter. Cooperative agreements also are administered in accordance with NSF Cooperative Agreement Financial and Administrative Terms and Conditions (CA-FATC) and the applicable Programmatic Terms and Conditions. NSF awards are electronically signed by an NSF Grants and Agreements Officer and transmitted electronically to the organization via e-mail.

*These documents may be accessed electronically on NSF's Website at http://www.nsf.gov/awards/managing/general_conditions.jsp?org=NSF. Paper copies may be obtained from the NSF Publications Clearinghouse, telephone (703) 292-7827 or by e-mail from pubs@nsf.gov.

More comprehensive information on NSF Award Conditions and other important information on the administration of NSF awards is contained in the *NSF Award & Administration Guide* (AAG) Chapter II, available electronically on the NSF Website at http://www.nsf.gov/publications/pub_summ.jsp?ods_key=aag.

C. Reporting Requirements

For all multi-year grants (including both standard and continuing grants), the Principal Investigator must submit an annual project report to the cognizant Program Officer at least 90 days before the end of the current budget period. (Some programs or awards require more frequent project reports). Within 90 days after expiration of a grant, the PI also is required to submit a final project report.

Failure to provide the required annual or final project reports will delay NSF review and processing of any future funding increments as well as any pending proposals for that PI. PIs should examine the formats of the required reports in advance to assure availability of required data.

PIs are required to use NSF's electronic project-reporting system, available through FastLane, for preparation and submission of annual and final project reports. Such reports provide information on activities and findings, project participants (individual and organizational) publications; and, other specific products and contributions. PIs will not be required to re-enter information previously provided, either with a proposal or in earlier updates using the electronic system. Submission of the report via FastLane constitutes certification by the PI that the contents of the report are accurate and complete.

VIII. AGENCY CONTACTS

General inquiries regarding this program should be made to:

- Patrick Mensah, Program Officer, CREST/HBCU-RISE, 815, telephone: (703) 292-4988, fax: (703) 292-9018, email: pmensah@nsf.gov
- Toni Edquist, Program Assistant, CREST/HBCU-RISE, CREST, 815, telephone: (703) 292-4649, email: tedquist@nsf.gov
- Juan Figueroa, Program Officer, SBIR/STTR, 590, telephone: (703) 292-7054, fax: (703) 292-9057, email: jfigueroa@nsf.gov

For questions related to the use of FastLane, contact:

- FastLane Help Desk, telephone: 1-800-673-6188; e-mail: fastlane@nsf.gov.
- Toni Edquist, Program Assistant, CREST, 815 N, telephone: (703) 292-4649, fax: (703) 292-9018, email: tedquist@nsf.gov

For questions relating to Grants.gov contact:

- Grants.gov Contact Center: If the Authorized Organizational Representatives (AOR) has not received a confirmation message from Grants.gov within 48 hours of submission of application, please contact via telephone: 1-800-518-4726; e-mail: support@grants.gov.

IX. OTHER INFORMATION

The NSF Website provides the most comprehensive source of information on NSF Directorates (including contact information), programs and funding opportunities. Use of this Website by potential proposers is strongly encouraged. In

addition, MyNSF (formerly the Custom News Service) is an information-delivery system designed to keep potential proposers and other interested parties apprised of new NSF funding opportunities and publications, important changes in proposal and award policies and procedures, and upcoming NSF Regional Grants Conferences. Subscribers are informed through e-mail or the user's Web browser each time new publications are issued that match their identified interests. MyNSF also is available on NSF's Website at <http://www.nsf.gov/mynsf/>.

Grants.gov provides an additional electronic capability to search for Federal government-wide grant opportunities. NSF funding opportunities may be accessed via this new mechanism. Further information on Grants.gov may be obtained at <http://www.grants.gov>.

ABOUT THE NATIONAL SCIENCE FOUNDATION

The National Science Foundation (NSF) is an independent Federal agency created by the National Science Foundation Act of 1950, as amended (42 USC 1861-75). The Act states the purpose of the NSF is "to promote the progress of science; [and] to advance the national health, prosperity, and welfare by supporting research and education in all fields of science and engineering."

NSF funds research and education in most fields of science and engineering. It does this through grants and cooperative agreements to more than 2,000 colleges, universities, K-12 school systems, businesses, informal science organizations and other research organizations throughout the US. The Foundation accounts for about one-fourth of Federal support to academic institutions for basic research.

NSF receives approximately 40,000 proposals each year for research, education and training projects, of which approximately 11,000 are funded. In addition, the Foundation receives several thousand applications for graduate and postdoctoral fellowships. The agency operates no laboratories itself but does support National Research Centers, user facilities, certain oceanographic vessels and Antarctic research stations. The Foundation also supports cooperative research between universities and industry, US participation in international scientific and engineering efforts, and educational activities at every academic level.

Facilitation Awards for Scientists and Engineers with Disabilities provide funding for special assistance or equipment to enable persons with disabilities to work on NSF-supported projects. See Grant Proposal Guide Chapter II, Section D.2 for instructions regarding preparation of these types of proposals.

The National Science Foundation has Telephonic Device for the Deaf (TDD) and Federal Information Relay Service (FIRS) capabilities that enable individuals with hearing impairments to communicate with the Foundation about NSF programs, employment or general information. TDD may be accessed at (703) 292-5090 and (800) 281-8749, FIRS at (800) 877-8339.

The National Science Foundation Information Center may be reached at (703) 292-5111.

The National Science Foundation promotes and advances scientific progress in the United States by competitively awarding grants and cooperative agreements for research and education in the sciences, mathematics, and engineering.

To get the latest information about program deadlines, to download copies of NSF publications, and to access abstracts of awards, visit the NSF Website at <http://www.nsf.gov>

- **Location:** 4201 Wilson Blvd. Arlington, VA 22230
- **For General Information** (NSF Information Center): (703) 292-5111
- **TDD (for the hearing-impaired):** (703) 292-5090
- **To Order Publications or Forms:**

Send an e-mail to: pubs@nsf.gov

or telephone: (703) 292-7827

PRIVACY ACT AND PUBLIC BURDEN STATEMENTS

The information requested on proposal forms and project reports is solicited under the authority of the National Science Foundation Act of 1950, as amended. The information on proposal forms will be used in connection with the selection of qualified proposals; and project reports submitted by awardees will be used for program evaluation and reporting within the Executive Branch and to Congress. The information requested may be disclosed to qualified reviewers and staff assistants as part of the proposal review process; to proposer institutions/grantees to provide or obtain data regarding the proposal review process, award decisions, or the administration of awards; to government contractors, experts, volunteers and researchers and educators as necessary to complete assigned work; to other government agencies or other entities needing information regarding applicants or nominees as part of a joint application review process, or in order to coordinate programs or policy; and to another Federal agency, court, or party in a court or Federal administrative proceeding if the government is a party. Information about Principal Investigators may be added to the Reviewer file and used to select potential candidates to serve as peer reviewers or advisory committee members. See Systems of Records, NSF-50, "Principal Investigator/Proposal File and Associated Records," 69 Federal Register 26410 (May 12, 2004), and NSF-51, "Reviewer/Proposal File and Associated Records," 69 Federal Register 26410 (May 12, 2004). Submission of the information is voluntary. Failure to provide full and complete information, however, may reduce the possibility of receiving an award.

An agency may not conduct or sponsor, and a person is not required to respond to, an information collection unless it displays a valid Office of Management and Budget (OMB) control number. The OMB control number for this collection is 3145-0058. Public reporting burden for this collection of information is estimated to average 120 hours per response, including the time for reviewing instructions. Send comments regarding the burden estimate and any other aspect of this collection of information, including suggestions for reducing this burden, to:

Suzanne H. Plimpton
Reports Clearance Officer
Division of Administrative Services
National Science Foundation
Arlington, VA 22230

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