

**U.S. NUCLEAR REGULATORY COMMISSION  
NOTICE OF GRANT/ASSISTANCE AWARD**

1. GRANT/AGREEMENT NO. NRC-38-10-952		2. MODIFICATION NO.		3. PERIOD OF PERFORMANCE FROM: 5/1/2010 TO: 4/30/2014		4. AUTHORITY Pursuant to Section 31b and 141b of the Atomic Energy Act of 1954, as amended	
5. TYPE OF AWARD <input checked="" type="checkbox"/> GRANT <input type="checkbox"/> COOPERATIVE AGREEMENT		6. ORGANIZATION TYPE Public State-Controlled Institution of Higher ED		7. RECIPIENT NAME, ADDRESS, and EMAIL ADDRESS Colorado School of Mining Graduate Fellowship Program 1500 Illinois Street Golden, CO 80401			
8. PROJECT TITLE: Colorado School of Mines Nuclear Science and Engineering Graduate Fellowship Program							
9. PROJECT WILL BE CONDUCTED PER GOVERNMENT'S/RECIPIENT'S PROPOSAL(S) DATED See Program Description AND APPENDIX A-PROJECT GRANT PROVISIONS		10. TECHNICAL REPORTS ARE REQUIRED <input checked="" type="checkbox"/> PROGRESS AND FINAL <input type="checkbox"/> FINAL ONLY <input type="checkbox"/> OTHER (Conference Proceedings)		11. PRINCIPAL INVESTIGATOR(S) NAME, ADDRESS and EMAIL ADDRESS Colorado School of Mining Attn: Dr. Jeffrey King Assistant Professor, Nuclear Science and Engineering Program Email: kingjc@mines.edu 303-384-2133			
12. NRC PROGRAM OFFICE (NAME and ADDRESS) NRC Attn: John Gutteridge Office of Human Resources MS: GW5A6 (301) 492-2313 11545 Rockville Pike Rockville, Maryland 20852		13. ACCOUNTING and APPROPRIATION DATA APPN. NO: 31X0200 B&R NO: 0-8415-5C1115 JOB CODE: T8460 BOC NO: 4110 OFFICE ID NO: RFPA: HR-10-952		14. METHOD OF PAYMENT <input type="checkbox"/> ADVANCE BY TREASURY CHECK <input type="checkbox"/> REIMBURSEMENT BY TREASURY CHECK <input type="checkbox"/> LETTER OF CREDIT <input checked="" type="checkbox"/> OTHER (SPECIFY) Electronic ASAP.gov (See Remarks in Item #20 "Payment Information")			
15. NRC OBLIGATION FUNDS THIS ACTION <u>\$368,425.00</u> PREVIOUS OBLIGATION _____ TOTAL <u>\$368,425.00</u>		16. TOTAL FUNDING AGREEMENT NRC <u>\$368,425.00</u> RECIPIENT _____ TOTAL <u>\$368,425.00</u> This action provides funds for Fiscal Year in the amount of See Page Two					
17. NRC ISSUING OFFICE (NAME, ADDRESS and EMAIL ADDRESS) U.S. Nuclear Regulatory Commission Div. of Contracts Attn: Sheila Bumpass Mail Stop: TWB-01-B10M Rockville MD 20852							
18. Signature Not Required				19. NRC CONTRACTING OFFICER <u>Sheila Bumpass</u> <u>5/1/2010</u> (Signature) _____ (Date) NAME (TYPED) <u>Sheila Bumpass</u> TITLE <u>Contracting Officer</u> TELEPHONE NO. <u>301-492-3484</u>			
20. PAYMENT INFORMATION Payment will be made through the Automated Standard Application for Payment (ASAP.gov) unless the recipient has failed to comply with the program objectives, award conditions, Federal reporting requirements or other conditions specified in 2 CFR 215 (OMB Circular A110).							
21. Attached is a copy of the "NRC General Provisions for Grants and Cooperative Agreements Awarded to Non-Government Recipients. Acceptance of these terms and conditions is acknowledged when Federal funds are used on this project.							
22. ORDER OF PRECEDENCE In the event of a conflict between the recipient's proposal and this award, the terms of the Award shall prevail.							
23. By this award, the Recipient certifies that payment of any audit-related debt will not reduce the level of performance of any Federal Program.							

TEMPLATE - ADM001

SUNSI REVIEW COMPLETE

MAY 17 2010

ADM001

## ATTACHMENT A - SCHEDULE

### A.1 PURPOSE OF GRANT

The purpose of this Grant is to provide support to the "The Colorado School of Mines Graduate Fellowship Program" as described in Attachment B entitled "Program Description."

### A.2 PERIOD OF GRANT

1. The effective date of this Grant is May 1, 2010. The estimated completion date of this Grant is April 30, 2014.

2. Funds obligated hereunder are available for program expenditures for the estimated period: May 1, 2010 – April 30, 2014.

#### A. GENERAL

1. Total Estimated NRC Amount: \$368,425  
2. Total Obligated Amount: \$368,425  
3. Cost-Sharing Amount: \$0  
4. Activity Title: The Colorado School of Mines Graduate Fellowship Program  
5. NRC Project Officer: John Gutteridge  
6. DUNS No.: 010628170

#### B. SPECIFIC

RFPA No.: HR-10-952  
FFS: N/A  
Job Code: T8460  
BOC: 4110  
B&R Number: 0-8415-5C1115  
Appropriation #: 31X0200  
Amount Obligated: \$368,425

### A.3 BUDGET

Revisions to the budget shall be made in accordance with Revision of Grant Budget in accordance with 2 CFR 215.25.

	Year 1	Year 2	Year 3	Year 4
Personnel Cost	\$47,000.00	\$47,000.00	\$47,000.00	\$47,000.00
Fringe Benefits	\$29,486.00	\$31,620.00	\$33,904.00	\$36,347.00
Travel Cost	\$6,000.00	\$6,000.00	\$6,000.00	\$6,000.00
Supplies	\$1,800.00	\$1,800.00	\$1,800.00	\$1,800.00
<b>Total Direct</b>	<b>\$84,286.00</b>	<b>\$86,420.00</b>	<b>\$88,704.00</b>	<b>\$91,147.00</b>
Indirect Costs	\$4,467.00	\$4,467.00	\$4,467.00	\$4,467.00
<b>Yearly Total</b>	<b>\$88,753.00</b>	<b>\$90,887.00</b>	<b>\$93,171.00</b>	<b>\$95,614.00</b>

All travel must be in accordance with the Colorado School of Mines Travel Regulations or the US Government Travel Policy absent Grantee's travel regulation.

### A.4 AMOUNT OF AWARD AND PAYMENT PROCEDURES

1. The total estimated amount of this Award is \$368,425 for the four year period.
2. NRC hereby obligates the amount of \$368,425 for program expenditures during the period set forth above and in support of the Budget above. The Grantee will be given written notice by the Contracting Officer when additional funds will be added. NRC is not obligated to reimburse the Grantee for the expenditure of amounts in excess of the total obligated amount.
3. Payment shall be made to the Grantee in accordance with procedures set forth in the Automated Standard Application For Payments (ASAP) Procedures set forth below.

## **Attachment B – Program Description**

### **PROGRAM DESCRIPTION**

Colorado School of Mines Nuclear Science and Engineering Graduate Fellowship Program

#### **B.1 Proposed Program**

The proposed Colorado School of Mines (CSM) Nuclear Science and Engineering Graduate Fellowship Program is intended to be a highly prestigious source of support for students pursuing a graduate degree in the Nuclear Science and Engineering (NSE) Program at the Colorado School of Mines. Each CSM Nuclear Science and Engineering Fellowship will provide a generous stipend (\$2000/month for up to 4 years), payment of tuition and fees, and a book and travel allowance (\$500 and \$1500/year, respectively). The stipend is more than 50% higher than the minimum stipend paid at our university for research assistantships. We are confident that this financial incentive will enable the program to attract top students. Four recipients will be supported each year from the pool of students satisfying the requirements in accordance with the following guidelines (which expand upon the NRC fellowship guidelines):

Be nominated by a faculty member in CSM's Nuclear Science and Engineering program, have at the time of application a 3.3 graduate GPA (on a 4.0 scale overall), which must be maintained during the time the Fellow is supported, maintain registration classification as a full time student, be matriculated in one of the graduate degree programs administered by CSM's Nuclear Science and Engineering program, be engaged in conducting graduate research in an area of interest to NRC (i.e. Nuclear Engineering, Health Physics, Radiochemistry, and other closely related areas), be a U.S. citizen or U.S. permanent resident, and agree to serve 6 months in nuclear related employment for each full or partial year of academic support.

The recruiting and marketing strategies (Section 2) and the selection process (Section 3) will ensure that the most qualified and deserving students are identified and that those students are pursuing a degree focus relevant to the goals of the grant. The first Fellowships are anticipated to start at the beginning of the Fall 2010 semester. The evaluation and monitoring plan for the Fellowship is described in Section 4.

#### **B.2 Technical Program**

CSM is a public research university founded under state law specifically designated to provide engineering education and applied research related to "Earth, Energy, Materials and the Environment". Currently, approximately 3400 undergraduate (predominantly Colorado residents) and 980 graduate students are educated on its Golden, Colorado campus.

Starting with the 2007/2008 academic year, CSM offers programs of study leading to graduate degrees in Nuclear Engineering. The Nuclear Engineering graduate degree program (the only program of its type in Colorado) is interdisciplinary in nature and draws substantial contributions from eight supporting Departments. While delivering a traditional Nuclear Engineering course core, the CSM-NSE program emphasizes the nuclear fuel life cycle. Faculty bring to the program expertise in all aspects of the nuclear fuel life cycle - fuel exploration and processing, nuclear power systems production, design and operation, fuel recycling, storage and waste remediation, radiation detection and radiation damage as well as the policy issues surrounding each of these activities. Research is conducted in the participating departments, at the USGS (U.S. Geological Survey) TRIGA reactor, and at the new CSM High Performance Computing cluster. In addition, a Nuclear Science and Engineering Center (NuSEC) has been established to integrate nuclear-related research efforts across campus.

The core Nuclear Engineering curriculum includes the following courses: Introduction to Nuclear Reactor Physics, Radiation Detection and Measurement, Nuclear Reactor Laboratory, Materials Science and Engineering of Nuclear Materials, Stewardship of Nuclear Resources, Reactor Design, and Nuclear Power and Public Policy. In addition, CSM offers a wide array of elective courses related to nuclear power and engineering. These courses are taught through the departments participating in the NSE Program, as well as by research and adjunct faculty hired by CSM to provide increased breadth and depth to the Program.

### **B.3 Student Support and Mentoring**

The selected Fellows will be supported in their academic career by their graduate advisor (who most likely nominated them for the Fellowship and will provide the majority of the mentoring and advising for the Fellow), together with both the NSE Program Chair and the NuSEC Director. At CSM, a graduate student's advisor serves the primary advising and mentoring role in guiding the student to the successful completion of his or her academic degree.

The structure of the Fellowship Program will enhance the mentoring and advising opportunities available to the Fellows. The Fellows will be required to directly focus on their research as a requirement for admission and continuation in the Program. The yearly progress report presentations will provide the Fellows the opportunity to receive feedback and advice from a number of faculty involved in the Nuclear Science and Engineering Program, as well as providing them the opportunity to hone their technical presentation skills.

Studies show that mentoring programs help to retain students, especially underrepresented students, in science and engineering; therefore, as part of the proposed program, we will incorporate a mentoring program into our NSE programs. We will coordinate certain aspects of these mentoring programs to include skill presentations on career information for students, e.g., how to find a job, how to communicate effectively, and the need to be versatile. Lastly, we will also work with our campus diversity programs to ensure all underrepresented students become involved in existing mentoring programs on and off campus that were specifically developed for underrepresented students (e.g., professional communities and MentorNet).

### **B.4 Recruitment and Marketing Strategies**

The details of the proposed Fellowship program will be available on the NuSEC website.

Pointing back to the website, the Fellowship Program will be advertised on internal list servers,

as well as on external list servers associated with the major professional societies and conferences (ANS, ASME, AiCHE, IEEE, etc.) as well as those focused on underrepresented students (SHPE, NSBE, SWE, WiN, etc.). The website will also provide interested students with the opportunity to interact with NSE faculty members, as a method of introducing potential new NSE students to faculty who can then use the Fellowship program as a recruiting tool.

CSM's Director of Graduate Recruiting will work closely with the PIs to promote the NSE programs at national recruitment events targeting diversity. We will have a NSE graduate student assist the graduate recruiting director with presentations at national meetings of SHPE, SWE, NSBE, ACM and targeted university career days. Leveraging CSM's ongoing activities to recruit for diversity will aid us in recruiting diverse and well qualified students to our NSE programs.

We understand that the pool of underrepresented students is small. We therefore plan to maximize our opportunities within this small pool through targeted marketing, established connections, and creating new networks of access. CSM has strong connections at several Hispanic Serving Institutions (e.g. U. of Southern Colorado, U. of New Mexico, and the U. of Houston), Historically Black Colleges and Universities (e.g. Tennessee State U., Howard U., Southern U., and Tuskegee U.), and universities with higher Native American and Alaskan Native populations (e.g., U. of New Mexico, Arizona State U., U. of Oklahoma, Montana State U., Northern Arizona U., Fort Lewis College and the South Dakota School of Mines and Technology). We will use our contacts to communicate directly with students they feel would be a good fit for our NSE programs. To recruit female students, we will strategically promote our NSE programs in science and engineering programs that traditionally have a large percentage of women.

## **B.5 Selection Process**

Initial selection of the Fellows for the first year of the Fellowship will begin as soon as possible after the grant is received. The selections will be made by a faculty committee which will include the P.I. and co-P.I. of this proposal, the NSE Program Director, the Director of NuSEC, and the Dean of Graduate Studies. Two or three additional members will be selected to ensure breadth over our disciplines as well as to comply with the campus diversity requirements. After the first year, the committee will consider both new and continuing applications to the Fellowship Program. The specific criteria and weighting factors for rating of the fellowship applications will be developed by the committee and disclosed in the annual solicitation for new and continuing fellows.

Applicants to the CSM Nuclear Science and Engineering Fellowship program must be nominated by one of the faculty members in the Nuclear Science and Engineering Program, who must also agree to provide one-half of the student's tuition, fees and stipend should the student receive a Fellowship. The initial Fellowship application will also require the submission of a short research proposal detailing the research project the applicant will be working on while covered by the Fellowship. This research project will generally also be the student's thesis or dissertation topic. The submission of the research proposal, along with an examination of the applicant's current and proposed coursework, will help the selection committee ensure the the selected Fellows are pursuing graduate work relevant to the goals of the grant. Prior to detailed evaluation, all applications will be screened to ensure that the potential Fellow meets all of the participant requirements detailed in Section 1 of this proposal.

In subsequent Fellowship years, current Fellows will be required to re-apply for the

Fellowship. The re-application process will be similar to the initial application process and will be conducted concurrently with the solicitation of new applications. Continuing applicants must still be supported by a faculty member in the Nuclear Science and Engineering Program; however, the Research Proposal will be replaced with a Research Status Report and Oral Presentation to be given to the selection committee near the end of the Spring semester (students and faculty in the Nuclear Science and Engineering Program will be invited to attend as both a mentoring and recruiting strategy). The continuing receipt of a Fellowship will be contingent on satisfactory academic progress, continuing relevance to the goals of the grant, and the overall quality of the research effort, with consideration given to continuing financial need and the goal of supporting a diverse array of students throughout this program.

## **B.6 Monitoring and Evaluation Plan**

The evaluation plan for the proposed Fellowship Program has two objectives: 1) to measure the Program's impact and effectiveness in attracting, preparing, and retaining students; and, 2) to ensure that the Fellows make satisfactory progress towards their degree and that they meet their post-Fellowship service agreement. The first objective involves comparison with both internal and external cohorts. The internal comparison will be with other NSE students and the external comparison will be with comparable Nuclear Science and Engineering programs at other schools. The external comparison will primarily focus on other new graduate programs (primarily those created after the year 2000), but will also consider other, more mature, programs as deemed applicable.

The internal component of Objective 1 will primarily look at the standard measures of graduate students success (GPA, number of publications, and progress towards completing required coursework) in terms of a comparison between the Fellows and their classmates, using internally available data. The external component will focus on institutional measures of success (graduate enrollment, graduation rates, job placement rates, starting salaries, and program rankings). These data will be obtained from publicly available sources and through co-operative contacts with comparable programs.

The re-application process described in Section 3 is the primary mechanism by which the academic progress of the Fellows will be measured, though the information gathered to support Objective 1 will also be evaluated on a per-Fellow basis. Fellows completing their academic program will be tracked for two years after graduate to ensure that their service agreement is met. CSM (supported by its alumni association) has Significant experience in student/alumni career tracking as these activities are also part of our normal procedures in maintaining ABET accreditation for our undergraduate fields of study.

The results of both objectives of the monitoring and evaluation plan will be compiled, evaluated, and used to improve the year-to-year function of the Fellowship program. The results will also be reported to NRC on a yearly basis.

## **B.7 Schedule of Tuition, Fees, and Costs**

All of the Nuclear Science and Engineering Graduate Fellows will be paid through a Graduate Research Assistant contract over the duration of their Fellowship. The payment of tuition is considered a fringe benefit for CSM Research Assistants and CSM Research Assistants must be registered as full time students. The current resident tuition for full time students is \$5,292/semester for 9-15 credit hours. Summer tuition is normally \$2,058 for up to four credit hours of summer coursework; however, CSM provides a summer fellowship for full

time students. The required academic fees are \$827/semester for the fall and spring semesters and \$448 for the summer semester. Health insurance is required for CSM Research Assistants and is \$780 for the fall and spring semesters. Payment of the spring insurance premium provides coverage for the summer. A 7% annual inflation rate has been applied to tuition, fees and insurance, starting with the first year of the Fellowship program.

The Nuclear Science and Engineering Graduate Fellows will be paid a monthly stipend of \$2000 during the course of their appointment, which is more than 50% higher than the minimum Research Assistant stipends at CSM. A yearly book allowance of \$500 will be made available to each of the Fellows, along with a \$1500/year travel allowance.

### **B.8 Integration with Minority Serving Institutions**

As described in Section 2, CSM is closely aligned with a number of Minority Serving Institutions, and these will be one focus of our recruiting efforts. CSM is a member of the National Graduate Education for Minorities (GEM) Consortium and we will partner with GEM to facilitate our goals and their mission to increase the participation of underrepresented minorities in engineering and science. For example, we will send information about our NSE programs to all GEM Primary Representatives. Additionally, by recruiting GEM students, we can further leverage our graduate student support to increase the number of minority students in our programs, as many companies will pay a GEM student's stipend.

### **B.9 Leveraged Funding and Institutional Support**

As mentioned in Sections 1 and 3, faculty nominating students for a Nuclear Science and Engineering Graduate Fellowship will be required to commit to providing one-half of the Fellow's stipend, tuition, and fees. This requirement has several benefits: it allows us to support more students within the Fellowship Program, it allows faculty members to support more students with their existing funds, it provides a larger pipeline of students committed to a career in Nuclear Science and Engineering, and it ensures that the nominated students have the committed support of faculty member (who is most likely their graduate advisor). Experience in previous fellowship programs has shown that there is a potential for fellowship recipients to become "detached" from their research advisor, with consequent low research productivity and degree progress. Requiring a financial commitment from the nominating advisor, along with the strong research focus of the Fellowship, will help the Fellows to complete their degree requirements in a timely and high-quality fashion.

In addition to the requirement for nominating faculty to provide financial support for potential Fellows, CSM will provide leveraging funds to directly support the proposed Fellowship Program in three forms:

Summer tuition (currently \$2,058/student) will be waived for any Fellow who is employed as a research assistant under this program, non-resident students employed under the Fellowship program will have tuition charged at the resident rate, and the Nuclear Science and Engineering Program will be provided a student support allowance of \$40,000/AY which will be available to help NSE faculty cover their share of the Fellows' tuition and stipend.

While new and developing, Mines is fully committed to building our program into a premier graduate enterprise specializing in nuclear fuel-cycle issues. To this end, Mines has:

Provided salary support for adjunct and research professors contributing to program

development and implementation, hired, with NRC support, one tenure-track faculty member who started in the Fall 2009 semester, is conducting a faculty search to hire a second faculty member, at a level commensurate with experience, to start in the Fall 2010 semester, received substantive commitment from thirty faculty across eight academic departments, implemented an agreement with the United States Geological Survey for access to their research reactor for research and instruction in support of our program, and is actively exploiting contacts with its partners in the uranium mining, milling, fuel production and environmental remediation industries to enhance the program.

## **B.10 Service Agreement**

All applicants to the CSM Nuclear Science and Engineering Graduate Fellowship Program will be obligated to acknowledge the Fellowship's service requirement as part of their application. Student's offered an appointment with the Fellowship Program will be required to sign the NRC provided service agreement before any monies are disbursed on their behalf. CSM will archive these service agreements and will provide copies to the NRC. As part of the evaluation plan described in Section 4, CSM will track the graduating Fellows' compliance with this agreement and provide this compliance information to the NRC.

## **Attachment C – Standard Terms and Conditions**

### **The Nuclear Regulatory Commission's Standard Terms and Conditions for U.S. Nongovernmental Grantees**

#### **Preface**

This award is based on the application submitted to, and as approved by, the Nuclear Regulatory Commission (NRC) under the authorization 42 USC 2051(b) pursuant to section 31b and 141b of the Atomic Energy Act of 1954, as amended, and is subject to the terms and conditions incorporated either directly or by reference in the following:

- Grant program legislation and program regulation cited in this Notice of Grant Award.
- Restrictions on the expenditure of Federal funds in appropriation acts, to the extent those restrictions are pertinent to the award.
- Code of Federal Regulations/Regulatory Requirements - 2 CFR 215 Uniform Administrative Requirements For Grants And Agreements With Institutions Of Higher Education, Hospitals, And Other Non-Profit Organizations (OMB Circulars), as applicable.

To assist with finding additional guidance for selected items of cost as required in 2 CRF 220, 2 CFR 225, and 2 CFR 230 these URLs to the Office of Management and Budget Cost Circulars are included for reference:

A-21 (now 2CFR 220):	<a href="http://www.whitehouse.gov/omb/circulars/a021/print/a021.html">http://www.whitehouse.gov/omb/circulars/a021/print/a021.html</a>
A-87 (now 2CFR 225):	<a href="http://www.whitehouse.gov/omb/circulars/a087/print/a087-all.html">http://www.whitehouse.gov/omb/circulars/a087/print/a087-all.html</a>
A-122:(now2 CFR 230)	<a href="http://www.whitehouse.gov/omb/circulars/a122/print/a122.html">http://www.whitehouse.gov/omb/circulars/a122/print/a122.html</a>
A-102, SF 424:	<a href="http://www.whitehouse.gov/omb/circulars/a102/print/a102.html">http://www.whitehouse.gov/omb/circulars/a102/print/a102.html</a>
Form 990:	<a href="http://www.irs.gov/pub/irs-pdf/i990-ez.pdf">http://www.irs.gov/pub/irs-pdf/i990-ez.pdf</a>

Any inconsistency or conflict in terms and conditions specified in the award will be resolved according to the following order of precedence: public laws, regulations, applicable notices published in the Federal Register, Executive Orders (EOs), Office of Management and Budget

(OMB) Circulars, the Nuclear Regulatory Commission's (NRC) Mandatory Standard Provisions, special award conditions, and standard award conditions.

By drawing funds from the Automated Standard Application for Payment system (ASAP), the recipient agrees to the terms and conditions of an award.

Certifications and representations. These terms incorporate the certifications and representations required by statute, executive order, or regulation that were submitted with the SF424B application through Grants.gov.

### **I. Mandatory General Requirements**

The order of these requirements does not make one requirement more important than any other requirement.

#### **1. Applicability of 2 CFR Part 215**

a. All provisions of 2 CFR Part 215 and all Standard Provisions attached to this grant/cooperative agreement are applicable to the Grantee and to sub-recipients which meet the definition of "Grantee" in Part 215, unless a section specifically excludes a sub-recipient from coverage. The Grantee and any sub-recipients must, in addition to the assurances made as part of the application, comply and require each of its sub-awardees employed in the completion of the project to comply with Subpart C of 2 CFR 215 Part 180 and include this term in lower-tier (subaward) covered transactions.

b. Grantees must comply with monitoring procedures and audit requirements in accordance with OMB Circular A-133. <  
[http://www.whitehouse.gov/omb/circulars/a133\\_compliance/08/08toc.aspx](http://www.whitehouse.gov/omb/circulars/a133_compliance/08/08toc.aspx) >

#### **2. Award Package**

##### **Grant Performance Metrics:**

The Office of Management and Budget requires all Federal Agencies providing funding for educational scholarships and fellowships as well as other educational related funding to report on specific metrics. These metrics are part of the Academic Competitiveness Council's (ACC) 2007 report and specifically relates to Science, Technology, Engineering, and Mathematics (STEM) curricula.

As part of the FY 2010 HR grant awards, in addition to the customary performance progress report requested on the SF-PPR, SF-PPR-B, and SF-PPR-E forms, HR requires the following metrics to be reported on by the awardees as follows:

##### **Fellowship Awards**

1. The number and percentage of STEM graduates who take a job in a STEM or STEM-related field;
2. The number and percentage of students who participate in scientific activities or research experiences in industry, government, or the not-for-profit sector;
3. The number and percentage of students who present research findings at scientific meetings or student science exchange events;

4. The number of students who participate in interdisciplinary research or educational experiences;
5. The number of students who engage in research experiences in an academic, government, or non-for-profit industry;
6. The number and percentage of graduate and postdoctoral fellowships who complete a STEM graduate or postdoctoral program;
7. The number and percentage of program completers who are employed in a STEM or STEM-related field;
8. The number and percentage of students who participate in scientific activities or research experiences in industry, government, or the not-for-profit sector. This metric will include internships;
9. The number and percentage of students who present research findings at scientific meetings or student science exchange events.

### **Service Agreement**

A signed service agreement and resume are required for all student recipients of scholarships or fellowships funded by the US Nuclear Regulatory Commission. The Service Agreement is attached to the Terms and Conditions.

### **§ 215.41 Grantee responsibilities.**

The Grantee is obligated to conduct such project oversight as may be appropriate, to manage the funds with prudence, and to comply with the provisions outlined in 2 CFR 215.41. Within this framework, the Principal Investigator (PI) named on the award face page, Block 11, is responsible for the scientific or technical direction of the project and for preparation of the project performance reports. This award is funded on a cost reimbursement basis not to exceed the amount awarded as indicated on the face page, Block 16., and is subject to a refund of unexpended funds to NRC.

The standards contained in this section do not relieve the Grantee of the contractual responsibilities arising under its contract(s). The Grantee is the responsible authority, without recourse to the NRC, regarding the settlement and satisfaction of all contractual and administrative issues arising out of procurements entered into in support of an award or other agreement. This includes disputes, claims, protests of award, source evaluation or other matters of a contractual nature. Matters concerning violation of statute are to be referred to such Federal, State or local authority as may have proper jurisdiction.

### **Subgrants**

#### **Appendix A to Part 215—Contract Provisions**

Sub-recipients, sub-awardees, and contractors have no relationship with NRC under the terms of this grant/cooperative agreement. All required NRC approvals must be directed through the Grantee to NRC. See 2 CFR 215.180 and 215.41.

### **Nondiscrimination**

(This provision is applicable when work under the grant/cooperative agreement is performed in the U.S. or when employees are recruited in the U.S.)

No U.S. citizen or legal resident shall be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity funded by this

award on the basis of race, color, national origin, age, religion, handicap, or sex. The Grantee agrees to comply with the non-discrimination requirements below:

Title VI of the Civil Rights Act of 1964 (42 USC §§ 2000d et seq)  
Title IX of the Education Amendments of 1972 (20 USC §§ 1681 et seq)  
Section 504 of the Rehabilitation Act of 1973, as amended (29 USC § 794)  
The Age Discrimination Act of 1975, as amended (42 USC §§ 6101 et seq)  
The Americans with Disabilities Act of 1990 (42 USC §§ 12101 et seq)  
Parts II and III of EO 11246 as amended by EO 11375 and 12086.  
EO 13166, "Improving Access to Services for Persons with Limited English Proficiency."  
Any other applicable non-discrimination law(s).

Generally, Title VII of the Civil Rights Act of 1964, 42 USC § 2000e et seq, provides that it shall be an unlawful employment practice for an employer to discharge any individual or otherwise to discriminate against an individual with respect to compensation, terms, conditions, or privileges of employment because of such individual's race, color, religion, sex, or national origin. However, Title VII, 42 USC § 2000e-1(a), expressly exempts from the prohibition against discrimination on the basis of religion, a religious corporation, association, educational institution, or society with respect to the employment of individuals of a particular religion to perform work connected with the carrying on by such corporation, association, educational institution, or society of its activities.

#### **Modifications/Prior Approval**

NRC prior written approval may be required before a Grantee makes certain budget modifications or undertakes particular activities. If NRC approval is required for changes in the grant or cooperative agreement, it must be requested of, and obtained from, the NRC Grants Officer in advance of the change or obligation of funds. All requests for NRC prior approval must be made, in writing (which includes submission by e-mail), to the designated Grants Specialist and Program Office no later than 30 days before the proposed change. The request must be signed by both the PI and the authorized organizational official. Failure to obtain prior approval, when required, from the NRC Grants Officer may result in the disallowance of costs, termination of the award, or other enforcement action within NRC's authority.

#### **Lobbying Restrictions**

The Grantee will comply, as applicable, with provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

The Grantee shall comply with provisions of 31 USC § 1352. This provision generally prohibits the use of Federal funds for lobbying in the Executive or Legislative Branches of the Federal Government in connection with the award, and requires disclosure of the use of non-Federal funds for lobbying.

The Grantee receiving in excess of \$100,000 in Federal funding shall submit a completed Standard Form (SF) LLL, "Disclosure of Lobbying Activities," regarding the use of non-Federal funds for lobbying within 30 days following the end of the calendar quarter in which there occurs any event that requires disclosure or that materially affects the accuracy of the information contained in any disclosure form previously filed. The Grantee must submit the SF-LLL, including those received from sub-recipients, contractors, and subcontractors, to the Grants Officer.

**§ 215.13 Debarment And Suspension.**

The Grantee agrees to notify the Grants Officer immediately upon learning that it or any of its principals:

- (1) Are presently excluded or disqualified from covered transactions by any Federal department or agency;
- (2) Have been convicted within the preceding three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, tax evasion, receiving stolen property, making false claims, or obstruction of justice; commission of any other offense indicating a lack of business integrity or business honesty that seriously and directly affects your present responsibility;
- (3) Are presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph (1)(b); and
- (4) Have had one or more public transactions (Federal, State, or local) terminated for cause or default within the preceding three years.

b. The Grantee agrees that, unless authorized by the Grants Officer, it will not knowingly enter into any subgrant or contracts under this grant/cooperative agreement with a person or entity that is included on the Excluded Parties List System (<http://epls.arnet.gov>).

The Grantee further agrees to include the following provision in any subgrant or contracts entered into under this award:

'Debarment, Suspension, Ineligibility, and Voluntary Exclusion

The Grantee certifies that neither it nor its principals is presently excluded or disqualified from participation in this transaction by any Federal department or agency. The policies and procedures applicable to debarment, suspension, and ineligibility under NRC-financed transactions are set forth in 2 CFR Part 180.'

**Drug-Free Workplace**

The Grantee must be in compliance with The Federal Drug Free Workplace Act of 1988. The policies and procedures applicable to violations of these requirements are set forth in 41 USC 702.

**Implementation of E.O. 13224 -- Executive Order On Terrorist Financing**

The Grantee is reminded that U.S. Executive Orders and U.S. law prohibits transactions with, and the provision of resources and support to, individuals and organizations associated with terrorism. It is the legal responsibility of the Grantee to ensure compliance with these Executive Orders and laws. This provision must be included in all contracts/sub-awards issued under this grant/cooperative agreement.

Award Grantees must comply with Executive Order 13224, Blocking Property and Prohibiting Transactions with Persons who Commit, Threaten to Commit, or Support Terrorism. Information about this Executive Order can be found at: [www.fas.org/irp/offdocs/eo/eo-13224.htm](http://www.fas.org/irp/offdocs/eo/eo-13224.htm).

**Procurement Standards. § 215.40**

Sections 215.41 through 215.48 set forth standards for use by Grantees in establishing procedures for the procurement of supplies and other expendable property, equipment, real property and other services with Federal funds. These standards are furnished to ensure that such materials and services are obtained in an effective manner and in compliance with the provisions of applicable Federal statutes and executive orders. No additional procurement standards or requirements shall be imposed by the Federal awarding agencies upon Grantees, unless specifically required by Federal statute or executive order or approved by OMB.

**Travel**

Travel is an appropriate charge to this award and prior authorization for specific trips are not required, as long as the trip is identified in the Grantee's original program description and original budget. All other travel, domestic or international, must not increase the total estimated award amount. Trips that have not been identified in the approved budget require the written prior approval of the Grants Officer.

Travel will be in accordance with the US Government Travel Regulations at: [www.gsa.gov/federaltravelregulation](http://www.gsa.gov/federaltravelregulation) and the per diem rates set forth at: [www.gsa.gov/perdiem](http://www.gsa.gov/perdiem).

Travel costs to the grant must be consistent with provisions as established in Appendix A to 2 CFR 220 (J.53)

**Property Management Standards**

Property standards of this award shall follow provisions as established in 2 CFR 215.30.

**Equipment** procedures shall follow provision established in 2 CFR 215.34.

**Procurement Standards**

Procurement standards of this award shall follow provisions as established in 2 CFR 215.40.

**Intangible and Intellectual Property**

Intangible and intellectual property of this award shall generally follow provisions established in 2 CFR 215.36.

**Inventions Report** - The Bayh-Dole Act (P.L. 96-517) affords Grantees the right to elect title and retain ownership to inventions they develop with funding under an NRC grant award ("subject inventions"). In accepting an award, the Grantee agrees to comply with applicable NRC policies, the Bayh-Dole Act, and its Government-wide implementing regulations found at Title 37, Code of Federal Regulations (CFR) Part 401. A significant part of the regulations require that the Grantee report all subject inventions to the awarding agency (NRC) as well as include an acknowledgement of federal support in any patents. NRC participates in the trans-government Interagency Edison system (<http://www.iedison.gov>) and expects NRC funding Grantees to use this system to comply with Bayh-Dole and related intellectual property reporting requirements. The system allows for Grantees to submit reports electronically via the Internet. In addition, the invention must be reported in continuation applications (competing or non-competing).

**Patent Notification Procedures-** Pursuant to EO 12889, NRC is required to notify the owner of any valid patent covering technology whenever the NRC or its financial assistance Grantees, without making a patent search, knows (or has demonstrable reasonable grounds to know) that technology covered by a valid United States patent has been or will be used without a license from the owner. To ensure proper notification, if the Grantee uses or has used patented technology under this award without license or permission from the owner, the Grantee must notify the Grants Officer. This notice does not necessarily mean that the Government authorizes and consents to any copyright or patent infringement occurring under the financial assistance.

**Data, Databases, and Software** - The rights to any work produced or purchased under a NRC federal financial assistance award are determined by 2 CFR 215.36. Such works may include data, databases or software. The Grantee owns any work produced or purchased under a NRC federal financial assistance award subject to NRC's right to obtain, reproduce, publish or otherwise use the work or authorize others to receive, reproduce, publish or otherwise use the data for Government purposes.

**Copyright** - The Grantee may copyright any work produced under a NRC federal financial assistance award subject to NRC's royalty-free nonexclusive and irrevocable right to reproduce, publish or otherwise use the work or authorize others to do so for Government purposes. Works jointly authored by NRC and Grantee employees may be copyrighted but only the part authored by the Grantee is protected because, under 17 USC § 105, works produced by Government employees are not copyrightable in the United States. On occasion, NRC may ask the Grantee to transfer to NRC its copyright in a particular work when NRC is undertaking the primary dissemination of the work. Ownership of copyright by the Government through assignment is permitted under 17 USC § 105.

**Records retention and access requirements** for records of the Grantee shall follow established provisions in 2 CFR 215.53.

#### **Organizational Prior Approval System**

In order to carry out its responsibilities for monitoring project performance and for adhering to award terms and conditions, each Grantee organization shall have a system to ensure that appropriate authorized officials provide necessary organizational reviews and approvals in advance of any action that would result in either the performance or modification of an NRC supported activity where prior approvals are required, including the obligation or expenditure of funds where the governing cost principles either prescribe conditions or require approvals.

The Grantee shall designate an appropriate official or officials to review and approve the actions requiring NRC prior approval. Preferably, the authorized official(s) should be the same official(s) who sign(s) or countersign(s) those types of requests that require prior approval by NRC. The authorized organization official(s) shall not be the principal investigator or any official having direct responsibility for the actual conduct of the project, or a subordinate of such individual.

**Conflict Of Interest Standards** of this award shall follow provisions as established in 2 CFR 215.42 Codes of Conduct.

#### **Dispute Review Procedures**

a. Any request for review of a notice of termination or other adverse decision should be addressed to the Grants Officer. It must be postmarked or transmitted electronically no later

than 30 days after the postmarked date of such termination or adverse decision from the Grants Officer.

b. The request for review must contain a full statement of the Grantee's position and the pertinent facts and reasons in support of such position.

c. The Grants Officer will promptly acknowledge receipt of the request for review and shall forward it to the Director, Office of Administration, who shall appoint a review committee consisting of a minimum of three persons.

d. Pending resolution of the request for review, the NRC may withhold or defer payments under the award during the review proceedings.

e. The review committee will request the Grants Officer who issued the notice of termination or adverse action to provide copies of all relevant background materials and documents. The committee may, at its discretion, invite representatives of the Grantee and the NRC program office to discuss pertinent issues and to submit such additional information as it deems appropriate. The chairman of the review committee will insure that all review activities or proceedings are adequately documented.

f. Based on its review, the committee will prepare its recommendation to the Director, Office of Administration, who will advise the parties concerned of his/her decision.

**Termination and Enforcement.** Termination of this award by default or by mutual consent shall follow provisions as established in 2 CFR 215.60.

### **Monitoring and Reporting § 215.51**

a. Grantee Financial Management systems must comply with the established provisions in 2 CFR 215.21

- Payment – 2 CFR 215.22
- Cost Share – 2 CFR 215.23
- Program Income – 2 CFR 215.24
  - Earned program income, if any, shall be added to funds committed to the project by the NRC and Grantee and used to further eligible project or program objectives.
- Budget Revision – 2 CFR 215.25
  - In accordance with 2 CFR 215.25(e), the NRC waives the prior approval requirement for items identified in sub-part (e)(1-4).
  - The Grantee is not authorized to rebudget between direct costs and indirect costs without written approval of the Grants Officer.
  - Allowable Costs – 2 CFR 215.27

### **b. Federal Financial Reports**

Effective October 1, 2008, NRC transitioned from the SF-269, SF-269A, SF-272, and SF-272A to the Federal Financial Report (SF-425) as required by OMB:

[http://www.whitehouse.gov/omb/fedreg/2008/081308\\_ffr.pdf](http://www.whitehouse.gov/omb/fedreg/2008/081308_ffr.pdf)

[http://www.whitehouse.gov/omb/grants/standard\\_forms/ffr.pdf](http://www.whitehouse.gov/omb/grants/standard_forms/ffr.pdf)

[http://www.whitehouse.gov/omb/grants/standard\\_forms/ffr\\_instructions.pdf](http://www.whitehouse.gov/omb/grants/standard_forms/ffr_instructions.pdf)

The Grantee shall submit a "Federal Financial Report" (SF-425) on a semi-annual basis for the periods ending March 31 and September 30, or any portion thereof, unless otherwise specified in a special award condition. Reports are due no later than 30 days following the end of each reporting period. A final SF-425 shall be submitted within 90 days after expiration of the award.

**Period of Availability of Funds 2 CFR § 215.28**

- a. Where a funding period is specified, a Grantee may charge to the grant only allowable costs resulting from obligations incurred during the funding period and any pre-award costs authorized by the NRC.
- b. Unless otherwise authorized in 2 CFR 215.25(e)(2) or a special award condition, any extension of the award period can only be authorized by the Grants Officer in writing. Verbal or written assurances of funding from other than the Grants Officer shall not constitute authority to obligate funds for programmatic activities beyond the expiration date.
- c. The NRC has no obligation to provide any additional prospective or incremental funding. Any modification of the award to increase funding and to extend the period of performance is at the sole discretion of the NRC.
- d. Requests for extensions to the period of performance shall be sent to the Grants Officer at least 30 days prior to the grant/cooperative agreement expiration date. Any request for extension after the expiration date shall not be honored.

**Automated Standard Application For Payments (ASAP) Procedures**

Unless otherwise provided for in the award document, payments under this award will be made using the Department of Treasury's Automated Standard Application for Payment (ASAP) system < <http://www.fms.treas.gov/asap/> >. Under the ASAP system, payments are made through preauthorized electronic funds transfers, in accordance with the requirements of the Debt Collection Improvement Act of 1996. In order to receive payments under ASAP, Grantees are required to enroll with the Department of Treasury, Financial Management Service, and Regional Financial Centers, which allows them to use the on-line method of withdrawing funds from their ASAP established accounts. The following information will be required to make withdrawals under ASAP: (1) ASAP account number – the award number found on the cover sheet of the award; (2) Agency Location Code (ALC) – 31000001; and Region Code. Grantees enrolled in the ASAP system do not need to submit a "Request for Advance or Reimbursement" (SF-270), for payments relating to their award.

**Audit Requirements**

Organization-wide or program-specific audits shall be performed in accordance with the Single Audit Act Amendments of 1996, as implemented by OMB Circular A-133, "Audits of States, Local Governments, and Non-Profit Organizations." <http://www.whitehouse.gov/omb/circulars/a133/a133.html> Grantees are subject to the provisions of OMB Circular A-133 if they expend \$500,000 or more in a year in Federal awards.

The Form SF-SAC and the Single Audit Reporting packages for fiscal periods ending on or after January 1, 2008 must be submitted online.

1. Create your online report ID at <http://harvester.census.gov/fac/collect/ddeindex.html>
2. Complete the Form SF-SAC

3. Upload the Single Audit
4. Certify the Submission
5. Click "Submit."

Organizations expending less than \$500,000 a year are not required to have an annual audit for that year but must make their grant-related records available to NRC or other designated officials for review or audit.

### **III. Programmatic Requirements**

#### **Performance (Technical) Reports**

- a. The Grantee shall submit performance (technical) reports electronically to the NRC Project Officer and Grants Officer as specified in the special award conditions in the same frequency as the Federal Financial Report unless otherwise authorized by the Grants Officer.
- b. Unless otherwise specified in the award provisions, performance (technical) reports shall contain brief information as prescribed in the applicable uniform administrative requirements 2 CFR §215.51 which are incorporated in the award.
- c. The Office of Human Resources requires the submission of the semi-annual progress report on the SF-PPR, SF-PPR-B, and the SF-PPR-E forms. The submission for the six month period ending March 31<sup>st</sup> is due by April 30<sup>th</sup>. The submission for the six month period ending September 30<sup>th</sup> is due by October 31<sup>st</sup>.

#### **Unsatisfactory Performance**

Failure to perform the work in accordance with the terms of the award and maintain at least a satisfactory performance rating or equivalent evaluation may result in designation of the Grantee as high risk and assignment of special award conditions or other further action as specified in the standard term and condition entitled "Termination".

Failure to comply with any or all of the provisions of the award may have a negative impact on future funding by NRC and may be considered grounds for any or all of the following actions: establishment of an accounts receivable, withholding of payments under any NRC award, changing the method of payment from advance to reimbursement only, or the imposition of other special award conditions, suspension of any NRC active awards, and termination of any NRC award.

#### **Other Federal Awards With Similar Programmatic Activities**

The Grantee shall immediately provide written notification to the NRC Project Officer and the Grants Officer in the event that, subsequent to receipt of the NRC award, other financial assistance is received to support or fund any portion of the program description incorporated into the NRC award. NRC will not pay for costs that are funded by other sources.

#### **Prohibition Against Assignment By The Grantee**

The Grantee shall not transfer, pledge, mortgage, or otherwise assign the award, or any interest therein, or any claim arising thereunder, to any party or parties, banks, trust companies, or other financing or financial institutions without the express written approval of the Grants Officer.

#### **Site Visits**

The NRC, through authorized representatives, has the right, at all reasonable times, to make site visits to review project accomplishments and management control systems and to provide such technical assistance as may be required. If any site visit is made by the NRC on the premises of the Grantee or contractor under an award, the Grantee shall provide and shall require his/her contractors to provide all reasonable facilities and assistance for the safety and convenience of the Government representative in the performance of their duties. All site visits and evaluations shall be performed in such a manner as will not unduly delay the work.

#### **IV. Miscellaneous Requirements**

##### **Criminal and Prohibited Activities**

- a. The Program Fraud Civil Remedies Act (31 USC §§ 3801-3812), provides for the imposition of civil penalties against persons who make false, fictitious, or fraudulent claims to the Federal government for money (including money representing grant/cooperative agreements, loans, or other benefits.)
- b. False statements (18 USC § 287), provides that whoever makes or presents any false, fictitious, or fraudulent statements, representations, or claims against the United States shall be subject to imprisonment of not more than five years and shall be subject to a fine in the amount provided by 18 USC § 287.
- c. False Claims Act (31 USC 3729 et seq), provides that suits under this Act can be brought by the government, or a person on behalf of the government, for false claims under federal assistance programs.
- d. Copeland "Anti-Kickback" Act (18 USC § 874), prohibits a person or organization engaged in a federally supported project from enticing an employee working on the project from giving up a part of his compensation under an employment contract.

##### **American-Made Equipment And Products**

Grantees are hereby notified that they are encouraged, to the greatest extent practicable, to purchase American-made equipment and products with funding provided under this award.

##### **Increasing Seat Belt Use in the United States**

Pursuant to EO 13043, Grantees should encourage employees and contractors to enforce on-the-job seat belt policies and programs when operating company-owned, rented or personally-owned vehicle.

##### **Federal Employee Expenses**

Federal agencies are generally barred from accepting funds from a Grantee to pay transportation, travel, or other expenses for any Federal employee unless specifically approved in the terms of the award. Use of award funds (Federal or non-Federal) or the Grantee's provision of in-kind goods or services, for the purposes of transportation, travel, or any other expenses for any Federal employee may raise appropriation augmentation issues. In addition, NRC policy prohibits the acceptance of gifts, including travel payments for Federal employees, from Grantees or applicants regardless of the source.

##### **Minority Serving Institutions (MSIs) Initiative**

Pursuant to EOs 13256, 13230, and 13270, NRC is strongly committed to broadening the participation of MSIs in its financial assistance program. NRC's goals include achieving full participation of MSIs in order to advance the development of human potential, strengthen the

Nation's capacity to provide high-quality education, and increase opportunities for MSIs to participate in and benefit from Federal financial assistance programs. NRC encourages all applicants and Grantees to include meaningful participations of MSIs. Institutions eligible to be considered MSIs are listed on the Department of Education website:  
<http://www.ed.gov/about/offices/list/ocr/edlite-minorityinst.html>

### **Research Misconduct**

Scientific or research misconduct refers to the fabrication, falsification, or plagiarism in proposing, performing, or reviewing research, or in reporting research results. It does not include honest errors or differences of opinions. The Grantee organization has the primary responsibility to investigate allegations and provide reports to the Federal Government. Funds expended on an activity that is determined to be invalid or unreliable because of scientific misconduct may result in a disallowance of costs for which the institution may be liable for repayment to the awarding agency. The Office of Science and Technology Policy at the White House published in the Federal Register on December 6, 2000, a final policy that addressed research misconduct. The policy was developed by the National Science and Technology Council (65 FR 76260). The NRC requires that any allegation be submitted to the Grants Officer, who will also notify the OIG of such allegation. Generally, the Grantee organization shall investigate the allegation and submit its findings to the Grants Officer. The NRC may accept the Grantee's findings or proceed with its own investigation. The Grants Officer shall inform the Grantee of the NRC's final determination.

### **Publications, Videos, and Acknowledgment of Sponsorship**

Publication of the results or findings of a research project in appropriate professional journals and production of video or other media is encouraged as an important method of recording and reporting scientific information. It is also a constructive means to expand access to federally funded research. The Grantee is required to submit a copy to the NRC and when releasing information related to a funded project include a statement that the project or effort undertaken was or is sponsored by the NRC. The Grantee is also responsible for assuring that every publication of material (including Internet sites and videos) based on or developed under an award, except scientific articles or papers appearing in scientific, technical or professional journals, contains the following disclaimer:

"This [report/video] was prepared by [Grantee name] under award [number] from [name of operating unit], Nuclear Regulatory Commission. The statements, findings, conclusions, and recommendations are those of the author(s) and do not necessarily reflect the view of the [name of operating unit] or the US Nuclear Regulatory Commission."

## 2010 Scholarship and Fellowship Program Service Agreement

1. This service agreement is required for all student recipients of scholarships or fellowships (hereinafter referred to as the "recipient") funded by the U.S. Nuclear Regulatory Commission (NRC) through the University of \_\_\_\_\_.
2. This agreement confirms the recipient's obligations to maintain satisfactory academic progress and serve 6 months in nuclear-related employment for each year of academic support. The employment may be with NRC, other Federal agencies, State agencies, Department of Energy laboratories, nuclear-related industry, or academia in the recipients' sponsored fields of study.
3. The scholarship recipient must: (check here  if scholarship)
  - a. remain matriculated in the degree program for the field of study for which the scholarship was approved,
  - b. maintain satisfactory academic progress in the recipient's field of study, as demonstrated by maintaining a 3.0 Grade Point Average both overall and within the recipient's major, and
  - c. maintain a course load of at least 12 credit hours per semester as a full-time student in good standing.
4. The fellowship recipient must: (check here  if fellowship)
  - a. maintain a 3.3 GPA overall and within a field of study
  - b. maintain a course load of at least 12 credit hours per semester or be classified as a full time student
  - c. remain matriculated in a graduate degree program in a nuclear related area, preferably in the fields of Nuclear Engineering, Health Physics, and Radiochemistry.
5. If a recipient fails to maintain satisfactory academic progress, the scholarship or fellowship will be terminated and the recipient could be obligated to repay the NRC the full amount of the scholarship/fellowship.
6. If a recipient receives any subsequent scholarship(s) or fellowship(s) through this program, the service obligation periods will be consecutive.
7. At the discretion of the NRC, the service obligation period may be delayed to allow the recipient to continue a subsequent degree program immediately following that sponsored under this program. For example, a recipient who receives a fellowship to earn a Master's degree, may request and be permitted to delay fulfilling their service obligation until after they complete a subsequent terminal degree program. Any such requests must be made to the NRC before a student enrolls in a subsequent degree program. If a student enrolls in a subsequent degree program before or without NRC approval, and the NRC does

not subsequently approve the request, the NRC will not be held liable for any expenses incurred to dis-enroll, or for failure to otherwise meet the terms of this service obligation. Recipients only incur a service obligation for funded periods of study.

8. If the student receives no employment offers or does not accept any of the offers received, the student is not relieved of the service obligation, unless, pursuant to this service agreement, the student applies for and receives a waiver from the NRC. Implicit in the waiver request is data or explanation by the student that efforts to secure employment in a nuclear-related field were undertaken. This can be in the form of job searches, referrals, etc. Absent a waiver from the NRC, rejection of one or more job offers could trigger the service agreement obligation.
9. If a recipient voluntarily leaves the employment during a period of obligated post-academic service, the recipient may immediately become liable to the U.S. Government for repayment of the entire amount of the assistance provided under the scholarship or fellowship, for which the service obligation has not been fulfilled.
10. The recipient employed by NRC understands that his or her last pay check and any lump sum payment for annual leave and other payment due on separation will be applied toward any unfulfilled service obligation without further notice. If the recipient's last pay check and any lump sum payment do not satisfy the debt, the recipient may pay the balance of the debt in full or set up a repayment plan.
11. By accepting this scholarship/fellowship, I agree to provide the NRC with current contact information (address, telephone, email), and employment information, subject to the provisions of the Privacy Act, for as long as I remain under obligated service. This information will be used solely for the purposes of verifying appropriate nuclear related employment in compliance with the service obligation requirements of this service agreement. In accordance with the Privacy Act, providing this information is voluntary; however, failure to do so may result in removal from the scholarship/fellowship program and/or repayment of all scholarship/grant money received. Contact information should be reported to: [eduscholar@nrc.gov](mailto:eduscholar@nrc.gov).
12. By signing this agreement, the recipient certifies that he or she has read this agreement and agrees to all of the obligations it entails.

\_\_\_\_\_  
Scholarship or Fellowship Recipient

\_\_\_\_\_  
Date

\_\_\_\_\_  
University Program Coordinator

\_\_\_\_\_  
Date

\_\_\_\_\_  
NRC Office of Human Resources

\_\_\_\_\_  
Date