

The Office of Science Graduate Fellowship Program

Application

General Applicant Information

Prefix	<input type="radio"/> Dr.	<input type="radio"/> Miss	<input type="radio"/> Mr.
	<input type="radio"/> Mrs.	<input type="radio"/> Ms.	
First Name			
Middle Name			
Last Name			
Suffix	<input type="radio"/> Jr.	<input type="radio"/> Sr.	<input type="radio"/> II
	<input type="radio"/> III	<input type="radio"/> IV	<input type="radio"/> V
Previous Last Names			

- Will you be 18 years old by July 1, 2012? (You must be 18 years old by July 1, 2012 to apply.)
- Are you a U.S. citizen? (You must be a U.S. citizen by January 3, 2012 to apply.)
- If no, will you be a U.S. citizen by January 3, 2012?

Contact Information

Contact Email	
Secondary Email	
Primary Phone (xxx-xxx-xxxx)	
Secondary Phone (xxx-xxx-xxxx)	

Mailing Address

Address 1	State / Province / Region
Address 2	Country
City	Zip code / Postal code

Permanent Address

Same as above

Address 1	State / Province / Region
Address 2	Country
City	Zip code / Postal code

Demographic Information

Gender	<input type="radio"/> Female <input type="radio"/> Male <input type="radio"/> Decline to Answer
Ethnicity	<input type="radio"/> Hispanic (of Mexican, Puerto Rican, Cuban, Central/South American, or other Spanish culture of origin descent, regardless of race) <input type="radio"/> Not Hispanic, Latino, or Spanish origin <input type="radio"/> Decline to Answer
Race (check all that apply)	<input type="checkbox"/> White (Having origins in any one of the original peoples of Europe, North Africa, or the Middle East) <input type="checkbox"/> Black, African American, or Negro (Having origins in any Black racial groups of Africa) <input type="checkbox"/> American Indian or Alaska Native (Having origins in any of the original people of North America, and maintaining cultural identification through tribal affiliation or community recognition) <input type="checkbox"/> Asian (Having origins in any of the original people of the Far East, Southeast Asia, or the Indian subcontinent, including, for example, India, China, Japan, and Korea) <input type="checkbox"/> Native Hawaiian or Other Pacific Islander (Having origins in any of the peoples of Hawaii, Guam, Samoa, or other Pacific Islands) <input type="checkbox"/> Other race _____ <input type="checkbox"/> Decline to answer

Graduate Fellowship Questions

How did you learn about the DOE SCGF program? (check all that apply)	<input type="checkbox"/> Faculty Member <input type="checkbox"/> Friend, classmate, other student, or family member <input type="checkbox"/> DOE press release <input type="checkbox"/> Email announcement from university <input type="checkbox"/> Internet search <input type="checkbox"/> Conference/Presentation <input type="checkbox"/> Other source _____
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Have you applied for any other federal fellowships this year? If yes, check all that apply. If a particular fellowship(s) is not on the list below select "Other" and provide the name of the fellowship(s).

- Department of Defense Science and Engineering Graduate (NDSEG) Fellowship
- Department of Defense Science, Mathematics, and Research for Transformation (SMART) Scholarship
- Department of Energy Computational Science Graduate Fellowship
- Department of Homeland Security Fellowship
- Department of Transportation Eisenhower Graduate Fellowship
- Environmental Protection Agency Science To Achieve Results (STAR) for Graduate Environmental Study Fellowships
- National and Aeronautics and Space Administration Graduate Student Researchers Program
- National Institutes of Health Ruth L. Kirschstein National Research Service Awards (NRSA) Individual Fellowship
- National Science Foundation Graduate Research Fellowship
- Other fellowship _____

Are you currently or have you previously been supported by a graduate federal fellowship program that provided tuition and/or stipend payments for your graduate education?

If yes, indicate the name(s) of the federal fellowship program(s):

Plans for Graduate Education

At what level of graduate study will you be enrolled in for the Fall 2012 semester/quarter?

- First year of a qualified Ph.D. program
- Second year of a qualified Ph.D. program
- Third year of a qualified Ph.D. program
- First year of a qualified Masters program
- Second year of a qualified Masters program

To be eligible for the DOE SCGF, you must be pursuing graduate study and research in an area of basic science that is well aligned with the [DOE Office of Science program research areas](#).

Select the DOE Office of Science program research area that best reflects your current or planned primary graduate study and research during the fellowship.

Legend:

- ASCR = Advanced Scientific Computing Research
- BES = Basic Energy Sciences
- BER = Biological and Environmental Research
- FES = Fusion Energy Sciences
- HEP = High Energy Physics
- NP = Nuclear Physics

- ASCR – Applied Mathematics
- ASCR – Computer Science
- ASCR – Network Environment Research
- BER – Atmospheric Systems Research
- BER – Biomass and Plant Feedstock Genomics
- BER – Carbon Cycle Science
- BER – Characterizing Key Molecular and Multicellular Processes for Genomic Science
- BER – Computational Biology and Bioinformatics
- BER – Earth System Modeling
- BER – Integrated Assessment Modeling
- BER – Low Dose Radiobiology
- BER – Microbial and Plant Processes for Bioenergy
- BER – Microbial Environmental Processes
- BER – Radiochemistry and Radionuclide Imaging Instrumentation
- BER – Simulation of Climate at Regional Scales
- BER – Subsurface Biogeochemistry
- BES – Atomic, Molecular, and Optical Sciences

- BES – Biomolecular Materials
- BES – Catalysis Science
- BES – Computation and Theoretical Chemistry
- BES – Condensed Phase and Interfacial Molecular Science (CPIMS)
- BES – Electron and Scanning Probe Microscopies
- BES – Experimental Condensed Matter Physics
- BES – Gas Phase Chemical Physics
- BES – Geosciences Research
- BES – Heavy Element Chemistry
- BES – Materials Chemistry
- BES – Mechanical Behavior and Radiation Effects
- BES – Neutron Scattering
- BES – Photosynthetic Systems
- BES – Physical Behavior of Materials
- BES – Physical Biosciences
- BES – Scientific User Facilities–Related Research
- BES – Separations and Analysis
- BES – Solar Photochemistry
- BES – Synthesis and Processing Science
- BES – Theoretical Condensed Matter Physics
- BES – X-ray Scattering

- FES – Enabling Technology Research and Development
- FES – Experimental Plasma Science
- FES – General Plasma Science
- FES – High Energy Density Plasma Science
- FES – Plasma Theory and Modeling
- HEP – Advanced Technology Research and Development
- HEP – Experimental High Energy Physics Research
- HEP – Theoretical High Energy Physics Research
- NP – Accelerator Research and Development for Nuclear Physics Facilities
- NP – Heavy Ion Nuclear Physics
- NP – Isotope Development and Production for Research and Applications
- NP – Low Energy Nuclear Physics
- NP – Medium Energy Nuclear Physics
- NP – Nuclear Data and Nuclear Theory Computing
- NP – Nuclear Theory

High School Education

Name of high school from which you graduated, or name of high school equivalency (including home school and GED)	
Country	
City	
State / Province / Region	Year of graduation or equivalency

Undergraduate Education Information

Will you have completed your undergraduate degree by July 1, 2012? (You must have completed your undergraduate degree by July 1, 2012 to be eligible to participate in the DOE SCGF.)	
Are you currently enrolled as an undergraduate student or will you be enrolled as an undergraduate student during the 2011–2012 academic year?	
If yes, list all undergraduate courses you have enrolled in or plan to enroll in during the 2011–2012 academic year.	
Course Title	
Course Number	Credits

Undergraduate Education Institution(s)

Institution	
Country	
State	
Department	
Start Date of Enrollment	End Date of Enrollment
Major	
Minor	
Cumulative GPA	
Degree in progress or received <input type="radio"/> BS <input type="radio"/> BA <input type="radio"/> AS <input type="radio"/> AA	
Are you currently enrolled at this institution?	
Include a transcript in PDF format for each institution listed. Click here for detailed information about acceptable transcripts . Be sure to redact any Dates of Birth or Social Security Numbers on your transcript. These items are considered protected PII (personally identifiable information) and do not need to be shared.	

Graduate Education Information

[Click here for detailed information about the DOE SCGF eligibility requirements. Review this information carefully to ensure that you are eligible to participate in the DOE SCGF.](#)

Select the option that best describes your current graduate status.	<input type="radio"/> I am currently enrolled as a graduate student in a Masters or Ph.D. program. <input type="radio"/> I am currently enrolled in the last year of a BS/MS program and plan to be enrolled in a Ph.D. program by September 2012. <input type="radio"/> I am not currently enrolled in a graduate program, but have been accepted into a graduate program that begins in the Spring or Fall of 2012. <input type="radio"/> I have completed my undergraduate degree and am not currently enrolled in a graduate program, but plan to apply to graduate programs this year and be enrolled by September 2012. <input type="radio"/> I am currently an undergraduate student or have no prior graduate education and plan to be enrolled in a graduate program by September 2012.
Are you currently enrolled as a graduate student or plan to be enrolled as a graduate student during the 2011–2012 academic year?	
If yes, list all graduate courses in which you are currently enrolled.	
Course Title	
Course Number	Credits

Graduate Education Institution(s)

List all graduate education institutions attended, beginning with current or most recent institution first.			
Institution			
Country			
State			
Department			
Start Date of Enrollment		End Date of Enrollment. If currently enrolled, estimated date of completion.	
Degree in progress or received	<input type="radio"/> MS	<input type="radio"/> MA	<input type="radio"/> MPhil <input type="radio"/> Ph.D.
Field of Study			

Credit Type	<input type="radio"/> Quarter <input type="radio"/> Semester	Credit Hours Completed	
Are you currently enrolled at this institution?			
<p>Include a transcript in PDF format for each institution listed. Click here for detailed information about acceptable transcripts. Be sure to redact any Dates of Birth of Social Security Numbers on your uploaded file. These items are considered protected PII (personally identifiable information) and do not need to be shared.</p>			

Academic Awards and Honors	
<p>List in chronological order (most recent first) any awards, scholarships, fellowships, traineeships or any other public recognitions. Include information following the example below:</p> <p>[Year award was made] [Award/Honor title] [Awarding Institution] [Description of Award/Honor]</p>	
Award or Honor (max 250 words)	

Publications and Presentations	
<p>List in chronological order (most recent first) all publications, manuscripts, poster presentations, and other presentations. Choose “publications” for any publications which you have authored or co-authored, including conference proceedings for which you gave a public talk or oral presentation. Choose “manuscripts” for any manuscripts you have authored or co-authored that have been submitted for publication, but have not yet been accepted. Choose “poster” for any poster publications you have given at a public meeting, or “presentations” for other presentations (do not include presentations made as part of an academic course).</p>	
Type	<input type="radio"/> Manuscript <input type="radio"/> Poster <input type="radio"/> Presentation <input type="radio"/> Publication
Publication or Presentation (max 250 words)	

DOE SCGF Essays

Note: We strongly recommend that you complete the essay questions using a word processor (to check spelling and grammar) and then copy and paste your essays into the appropriate text boxes provided.

Before you begin your essays, you should read the Merit Review Criteria that will be used to evaluate your application. It is your responsibility to ensure that sufficient details are provided in your application (including your essays) to address the Merit Review Criteria.

Essay 1: Personal Statement

Your personal statement should be a concise, well-written essay describing your academic studies and other relevant experiences in science, engineering, or mathematics and how these experiences have prepared you to pursue graduate study and research in the field you have chosen. The statement should include any notable coursework, research activities, participation in local, regional, or national scientific professional societies, and work experience. Your statement should also provide information illustrating your ability to work independently as well as in teams, and demonstrating leadership or involvement in scientific and technical activities.

In describing the scientific research activities in which you have participated – whether through undergraduate research, a research internship, or other academic or job-related research – provide an account of the purpose of the research, the nature of your contributions, and what knowledge and skills you acquired as a result. If you have not had research experience, describe any activities (courses, job-related work, etc.) you believe have prepared you for graduate research.

State your broad career goals. Describe how graduate study and research in the field you have chosen contributes to your broader career goals; how the DOE Office of Science Graduate Fellowship will enable you to achieve your goals; and how those goals contribute to the mission of the DOE Office of Science.

Essay 1 (max 1000 words)

DO NOT WRITE

Essay 2: Proposed Plan of Research

In a clear, concise, and original statement, describe a complete plan for a research project that you may pursue during the tenure of your fellowship. If you are currently pursuing a graduate degree in a qualified graduate program, you may choose to describe your thesis research. If you are not currently enrolled in a qualified graduate program or have not determined your thesis/dissertation research topic, describe a complete plan for research on a topic that is of interest to you and relevant to the course of study you plan to pursue as a graduate student.

In PLANS FOR GRADUATION EDUCATION section, you have selected a DOE Office of Science program research area that best reflects your current or planned primary graduate study and research during the fellowship. Your Proposed Plan of Research should be aligned with the mission of your selected DOE Office of Science research program area, and in addition, may be relevant to [other program areas](#).

The proposed plan of research statement should describe how the proposed research is novel or has the potential to make meaningful contributions to the forefront of the research field. The statement should identify the scientific or technical challenges associated with the problem or question, and how the proposed methodology or approach is appropriate.

If your proposed methods include use of any of the DOE Office of Science scientific user facilities, include the [name\(s\) of those facilities](#).

Use your own words. You may organize your essay as you determine appropriate. If you need to submit equations, figures, or graphs to clearly illustrate key points of your proposed research plan, you may upload a 1-page PDF file that contains only these elements in Essay 2: Supplemental Materials.

The essay should contain the following elements:

- Title
- Introduction, including:
 - Background that puts the research into context
 - Objectives of the proposed research – be specific about the questions your proposed research aims to address
 - Significance of the proposed research
- Research Design and Methods, including:
 - Known or anticipated challenges
 - Expected results or potential discoveries

Essay 2 (max 1200 words)

Essay 2: Supplemental Materials

List below no more than 6 literature references that are most significant to your proposed research plan. [Click here to see examples of the appropriate format to enter references.](#)

Literary Reference (max 100 words)

If you need to submit equations, figures, or graphs to clearly illustrate key points of your proposed research plan, you may upload a 1–page PDF file that contains only those elements.

You must label or number each equation, figure, or graph and each must be referenced in the body of Essay 2.

All explanations of the equations, figures, or graphs must be in the body of Essay 2.

All equations and labels directly on graphs and figures must be 12pt font or greater.

Do not include any additional text or captions on the 1–page PDF file.

Any file greater than 1–page (standard 8.5 x 11 inch equivalent, 1–inch margins) will not be reviewed at all.

Essay 3: Relevance of Proposed Plan of Research to the DOE Office of Science Mission Areas

In a short and concise essay describe how your Proposed Plan of Research in Essay 2 is aligned with the mission of the DOE Office of Science research program you selected in PLANS FOR GRADUATE EDUCATION, and how your proposed plan of research will further one or more of that program’s mission priorities. If you wish to change the program you selected, please return to the Plans for Graduate Education section.

Note that the DOE Office of Science supports basic research and the development of scientific tools needed to advance basic research to further the U.S. Department of Energy’s goals. The DOE Office of Science does not support development or deployment of particular energy technologies—that is the responsibility of other program offices within DOE.

Review the descriptions of the DOE Office of Science research programs before you begin this essay. [Those descriptions can be found here.](#)

Essay 3 (max 400 words)

GRE Scores

Applicants may submit General Record Examination (GRE) scores for the General Test and a Subject Test as part of their DOE SCGF application. GRE scores are not required, but are strongly encouraged.

The GRE Subject Test should be that which you have used (or will be using) to apply to a [qualified graduate program](#).

The Educational Testing Service (ETS, <http://www.ets.org>) is the official administrator of the GRE.

If you plan to submit GRE Test Scores, you must have these scores submitted on your behalf from ETS by January 3, 2012. If you have not yet taken the GRE General Test, you should plan to take the test at a computer-based test center before December 15, 2012. It is your responsibility to work with ETS to ensure that your GRE Test scores meet this deadline. **Provide the ETS with the DOE SCGF Institutional Code of 6969.**

All GRE Test scores must be submitted by the Educational Testing Service. Paper copies sent by applicants are not acceptable, and scores released to other institutions will not be considered valid.

Are you planning to submit General and/or Subject test scores?

If yes, enter the last four digits of your Social Security Number.

DO NOT SUBMIT

Letters of Recommendation

Letters of recommendation should be provided from employers, supervisors, professors, or others who are able to comment on your professional and educational goals and potential.

Three letters of recommendation are required for the DOE SCGF application. You may request up to four letters of recommendation in order to have a back-up in the event that one of your first three letters of recommendation is not submitted on time; however, only the first three received will be included as part of your application.

All letters of recommendation must be submitted by your recommenders no later than January 5, 2012 11:59 PM EDT. NO EXCEPTIONS will be made. It is the applicant's responsibility to ensure that letters of recommendation are submitted before the due date.

Tips for managing Letters of Recommendation:

- **Request your letters of recommendation early!** You may request letters of recommendation as soon as you begin the online application. You do not need to wait until your application is complete or submitted.
- Check your application status page frequently prior to the due date and send reminders to your recommenders, if needed.
- Have a back-up (fourth recommender) if you think one of your original three recommenders will not be able to submit their letter on time.
- Choose recommenders that will be able to assess your academic performance and readiness for graduate research.

Recommender Name
Recommender Email

Certify and Submit

I am aware that this program is supported by funding from the United States Government and, therefore is subject to Federal law regarding false statements and fraud, particularly the criminal provisions of 18 U.S. Code Section 1001. I certify, under penalty of law, that the submitted graduate fellowship application contains no false or fraudulent representations, statements, or entries.

I understand that information in the application and supporting materials will be provided to the selected reviewers and DOE SCGF and ORISE staff involved in the selection process. I further understand that it is my responsibility to redact all personally identifiable information (PII) such as Social Security Number, date of birth and Student ID from documents submitted with this application.

I certify that, to the best of my knowledge, all information contained in this application is accurate. I understand that any falsification will render me ineligible for participation and, if found after participation has begun, may require me to reimburse any funds received.

I have read the above information and certify the accuracy of the information in my application.

DO NOT SUBMIT