



Office of Civilian Radioactive Waste Management

OCRWM

Graduate Fellowship Program

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Program Description & Application

Application Deadline: January 26, 2009



Supported by:
U.S. Department of Energy
Administered by:
Oak Ridge Institute for Science and Education



2009
Office of Civilian Radioactive Waste Management
Graduate Fellowship Program

PROGRAM DESCRIPTION

Prepared for
U.S. Department of Energy
Office of Civilian Radioactive Waste Management

by

Oak Ridge Institute for Science and Education

An electronic application is available at:
<http://www.ornl.gov/orise/edu/DOE/ocrwm/>

2009 Financial Information

	<u>Amount</u>	<u>Payment Schedule</u>
Student Stipends	\$21,996 (annually)	Monthly
Practicum Allowance	\$300 (monthly)	Monthly
Tuition and Fees	Up to \$12,000 Annually	As Appropriate
Travel Allowance	Varies	As Appropriate

ORAU

Oak Ridge Associated Universities (ORAU) is a university consortium leveraging the scientific strength of 98 major research institutions to advance science and education by partnering with national laboratories, government agencies, and private industry. ORAU manages the Oak Ridge Institute for Science and Education for the U.S. Department of Energy.

ORISE

The **Oak Ridge Institute for Science and Education** (ORISE) is a U.S. Department of Energy facility focusing on scientific initiatives to research health risks from occupational hazards, assess environmental cleanup, respond to radiation medical emergencies, support national security and emergency preparedness, and educate the next generation of scientists. ORISE is managed by Oak Ridge Associated Universities.

EQUAL OPPORTUNITY POLICY

It is the policy of the Oak Ridge Institute for Science and Education to recruit and select participants without regard to race, age, gender, religion, color, national origin, mental or physical disability, or special disabled or Vietnam Era veteran status.

CONTRACT ACKNOWLEDGMENT

This research was performed under an appointment to the Office of Civilian Radioactive Waste Management, administered by the Oak Ridge Institute for Science and Education under contract number DE-AC05-06OR23100 between the U.S. Department of Energy and Oak Ridge Associated Universities..

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INTRODUCTION AND GENERAL DESCRIPTION OF THE OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT GRADUATE FELLOWSHIP PROGRAM

The Office of Civilian Radioactive Waste Management (OCRWM) of the U.S. Department of Energy (DOE) sponsors the Office of Civilian Radioactive Waste Management Graduate Fellowship Program to help DOE and OCRWM meet their expected personnel needs for ongoing research and development programs in the management of spent nuclear fuel (SNF) and high-level radioactive waste (HLW). Current and planned uses of commercial fission reactors for energy generation require that educated, highly qualified engineers and scientists with advanced degrees be available to provide technical leadership to the nation's SNF and HLW management programs. The fellowship program is designed to encourage talented students to pursue graduate degrees in disciplines related to the management of SNF and HLW. Furthermore, it provides ancillary benefits to academic research efforts in designated technical areas related to the implementation of the Nuclear Waste Policy Act of 1982. The technologies and sciences supported by the program are reviewed and appropriate changes in emphasis will be made to meet OCRWM's projected needs.

The fellowship program is administered for DOE by Oak Ridge Institute for Science and Education (ORISE).

Program Objectives

The specific objective of the program is to support graduate study in disciplines related to the sciences and technologies associated with the safe transport, storage and disposal of spent nuclear fuel.

Academic disciplines included within the scope of the program are in the general fields of earth sciences, engineering, materials science, and radiation science as they relate to the management of SNF and HLW. Technical areas of emphasis may include:

Engineering: waste management system design, measurement techniques, design methodology, transportation systems, and risk analysis;

Earth Sciences: hydrology-geology, site selection, evaluation of site stability, performance assessment and post emplacement studies;

Materials Science: materials development, waste package design, methodology, risk analysis, and materials behavior;

Radiation Protection and Nuclear Safety: standards development, biological effects and radiation interaction, detection, and dosimetry.

For additional information, visit the U.S. Department of Energy, Office of Civilian Radioactive Waste Management website at <http://www.ocrwm.doe.gov/>.

APPLICATION PROCEDURES

Eligibility

Students with undergraduate degrees in the physical sciences, life sciences, mathematics, or engineering are eligible to apply for the Office of Civilian Radioactive Waste Management Graduate Fellowship. Current graduate students who have not progressed to the point of having an approved thesis or dissertation problem are also eligible. Students must be planning full-time, uninterrupted study toward a Master's or Ph.D. degree. A current graduate student with a M.S. degree in the physical sciences, life sciences, mathematics, or engineering may apply for support to pursue a Ph.D. as long as a dissertation topic for the Ph.D. has not been previously selected. However, a recipient of an advanced degree in the physical sciences, life sciences, mathematics, or engineering may not receive support to pursue another degree at the same or lower level. A fellowship appointment will not exceed 48 months. The length of the fellowship appointment is based on the amount of graduate work completed before the initial fellowship appointment date. Renewal of the fellowship is based on excellent academic progress and research consistent with the DOE mission in Civilian Radioactive Waste Management.

Applicants must be either U.S. citizens or Legal Permanent Resident. It is the policy of Oak Ridge Institute for Science and Education to recruit and select participants without regard to race, age, gender, religion, color, national origin, mental or physical disability, or special disabled or Vietnam Era veteran status.

Application Deadline

Application forms will be available from approximately November to January of each year. Applications from previous years or from other fellowship programs may not be used. Completed applications will be accepted until the last Monday in January for fellowships beginning the following September. An application is made up of the following sections:

- Background Information and References (3 requested)
- Statement of the Applicant's Academic and Career Goals
- List of Current and Planned Courses
- Transcripts and GRE Scores

Please note: All parts of the application must be received at Oak Ridge Institute for Science and Education by January 26, 2009. Late or incomplete applications will not be reviewed for awards. GRE scores more than five years old will not be accepted.

An electronic application is available at: <http://www.ornl.gov/orise/edu/DOE/ocrwm/>

Completed Applications

Mail or fax completed applications to:

Elizabeth Keko
OCRWM Fellowship Program
Oak Ridge Institute for Science and Education
P.O. Box 117, MS-36
Oak Ridge, TN 37831-0117
Phone: (865) 241-7212
Fax: (865) 241-5220

Please include the fellowship program name on **all** of your correspondence to Oak Ridge Institute for Science and Education. ORISE administers many different fellowships for the Department of Energy, and mail without the program name included in the address may be delayed.

If you have questions about the application or need additional information, please call M. Carl Wheeler, Program Manager at (865) 241-6704 or e-mail him at mcarl.wheeler@ornl.gov; or call Elizabeth Keko at (865) 241-7212, or e-mail her at elizabeth.keko@ornl.gov. Again, please identify the program name when requesting materials or information.

FELLOWSHIP OBLIGATIONS

Enrollment: During the fellowship period, fellows are expected to be registered and enrolled as full-time graduate students, conducting study and research within the objectives of the fellowship program. During the summer, students should be conducting full-time research related to the completion of their degrees, be enrolled in classes, or be on practicum assignments. **Fellows are required to participate in a practicum for at least three months at a DOE facility to gain hands-on experience.**

Annual Renewal of Fellowship: During the fellowship appointment period, fellows will be required to complete Fellowship Renewal Forms regarding academic performance and course of study. **These forms are completed in January of each year.** Fellows must inform ORISE of their current addresses and complete any evaluation/assessment questionnaires sent by ORISE for program information and/or evaluation for five years following graduation.

Practicum: Each fellow is required to complete a three-month practicum at a DOE facility. The practicum is normally held during the summer at the end of the first academic year. To encourage a broad range of experience, a practicum assignment will ordinarily only be approved for a practicum facility more than 50 miles from the fellow's university.

Programs at Participating Universities: Fellowship awardees must attend a university designated as a participating university in the Office of Civilian Radioactive Waste Management Graduate Fellowship Program. A list of participating universities and university fellowship coordinators are included in this booklet. Fellowship coordinators may be contacted directly by interested applicants for in-depth information on their radioactive waste programs. All participating universities must undergo an application process and a university's inclusion on the participating university list represents the Department of Energy's acknowledgment of the strength of its program.

Note: Fellowships may only be held at DOE-specified institutions appearing on this list.

Applicants should list more than one university preference on the OCRWM fellowship application form. Should an award not be available at the applicant's first choice university, an award may be offered at the second-choice university listed on the application.

If an applicant's university preferences change after the application is submitted, ORISE must be notified, in writing, immediately. **University preference cannot be changed after the application has been evaluated by the review panel. Each fellowship must be held at its entirety at the participating academic university designated in the fellow's appointment letter.**

Terms of Appointment: Each fellow must agree to the conditions contained in the letter of appointment and its accompanying "Terms of Appointment." The fellow cannot claim any pecuniary award or compensation for inventions or discoveries made during the fellowship or resulting from it.

EVALUATION OF APPLICATIONS

When an application is received, it is checked by the staff at ORISE to ensure that the applicant meets the basic criteria and has returned all application materials. If time permits, the staff will attempt to contact applicants who have submitted incomplete applications. **However, it is the applicant's responsibility to check with ORISE to ensure that an application is complete.**

After an application is checked and designated complete it is submitted, along with all other complete applications, to a review panel. The review panel is composed of university and laboratory personnel who are directly responsible for instruction and research in the area of radioactive waste management. The panel reviews each application and recommends award recipients. Applications are reviewed on the basis of grades, courses taken, GRE scores, career and goals statement, and references. Other factors, including geographical criteria and professional personnel needs of the DOE radioactive waste management research program, are also considered. The Department of Energy reviews the applications and the panel's recommendations and approves the final selection.

The number of awards given each year is dependent on the number of graduating fellows currently in the program and on the funding available. Some applicants who do not receive awards are selected for "Honorable Mention" status. This status recognizes their achievements and places them on a list for a possible award should additional funding become available.

After the Department of Energy approves the award recipients, ORISE notifies applicants of their award status. Notification usually occurs in mid-April. Once fellowships are awarded, Oak Ridge Institute for Science and Education handles the administration of the fellowship for DOE. Questions about stipends, payment of tuition and fees, practicum assignments, travel, etc. during a student's fellowship tenure, should be referred to ORISE.

PROGRAM BENEFITS

Stipends

Fellows receive a monthly stipend in the amount of \$1,833. The fellow's basic stipend is augmented by \$300 each month during the practicum. Stipends for fellows (including during the practicum period) are either mailed each month directly to the address indicated by the fellow or direct deposited into the fellow's bank account.

Tuition and Fees

The fellow's required tuition and fees are paid by ORISE directly to the participating university upon receipt of invoice. Tuition and fees up to \$12,000 per year will be paid by ORISE directly to the university. Optional, refundable, and penalty fees (such as late registration and duplication fees) are not payable by ORISE. Health insurance fees will be paid by ORISE only if they are certified to be required for all graduate students. All tuition and fee charges must be certified to be consistent with those made to regular graduate students and necessary for enrollment into the graduate program.

In August of each year, ORISE notifies the bursar's office at each university regarding procedures of invoicing for fellowship students. Students will receive a copy of this correspondence and should retain this copy for use in discussing any billing errors with their university's bursar office.

The Department of Energy attempts to provide adequate funding to its fellowship participants for meeting the costs of graduate school. Scholarship awards, prizes, and other payments (including Veteran's benefits) that do not require a service may be accepted by the fellowship participant. Research assistantships and other responsibilities, with the exception of federal grants, may also be accepted if they are needed to supplement tuition cost in excess of \$12,000 per year.

Practicums

Fellows are required to serve one practicum of at least three months in duration and may serve more than one practicum if funding is available. Travel expenses will be reimbursed for the fellow for one round trip to/from the practicum site providing that the distance is more than 50 miles one way from the fellow's university. Transportation expenses for travel actually performed will be paid. Travel by private automobile will be reimbursed at the current ORISE rate per mile; travel by air will be either prepaid or reimbursed at the cost of the lowest commercial airfare. No expenses are paid for food or lodging enroute to the practicum site. All travel must be authorized in advance by ORISE.

Conference Travel

Fellows also have the opportunity, dependent upon available funding, to attend national or international high-level waste conferences. Conference travel is only approved when the student is presenting a paper or poster. Normally, only two trips of this nature are approved for each fellow. Requests for travel funds should be made in writing to the fellowship office at ORISE at least two months before the anticipated travel dates.

Thesis Research at Participating DOE Centers

A fellow may request to spend all or part of the time working on his thesis/dissertation research at one of the participating DOE facilities. To request off-campus research, a fellow should complete a request form (available from ORISE) and have it endorsed by his faculty advisor, university coordinator, and DOE facility coordinator. The faculty advisor must agree to continue to supervise the fellow's progress throughout the research work and must participate in necessary coordination with DOE facility personnel. The faculty advisor will be reimbursed for travel expenses, in accordance with ORISE Travel Policy, for one round trip to the facility for supervision and coordination of the research.

Fellow's travel expenses will be paid for one round trip to/from the research facility - providing that the distance is more than 50 miles one way. Travel expenses will also be paid for one round trip to/from the facility for the fellow to consult with the university graduate committee and/or to present a seminar on results of the thesis research.

A research advisor from the DOE facility should be assigned by the facility for the fellow. This advisor should also be nominated for appointment to the fellow's graduate thesis research committee.

Publication Acknowledgment

DOE and ORISE encourage fellows to publish reports and articles in scientific and engineering journals. The fellow must submit any articles, reports, or theses to ORISE for patent review only, concurrently with the submission for publication. All publications will show the joint affiliation of the fellow with the university and, if appropriate, with the laboratory in which the research was conducted.

Fellowship support should be acknowledged in the following manner:

The research was performed under appointment of the Office of Civilian Radioactive Waste Management Graduate Fellowship Program administered by Oak Ridge Institute for Science and Education under a contract between the U.S. Department of Energy and Oak Ridge Associated Universities.

PARTICIPATING UNIVERSITIES

Please contact the Office of Civilian Radioactive Waste Management Graduate Fellowship Program Coordinators at the universities listed below to learn more about the radioactive waste programs available at each institution.

UNIVERSITY OF CALIFORNIA-BERKELEY

Dr. Joonhong Ahn
Dept. of Nuclear Engineering
University of California-Berkeley
4157 Etcheverry Hall
Berkeley, CA 94720-1730

TEL: (510) 642-5107
FAX: (510) 643-9685
E-Mail: joonhong.ahn@berkeley.edu

CLEMSON UNIVERSITY

Dr. Timothy A. DeVol
Dept. of Environmental Engineering & Science
Clemson University
L.G. Rich Environmental Research Laboratory
342 Computer Court
Anderson, SC 29625-6510

TEL: (864) 656-1014
FAX: (864) 656-0672
E-Mail: tim.devol@ces.clemson.edu

COLORADO STATE UNIVERSITY

Dr. John D. Zimbrick
Dept. of Environmental & Radiological
Health Sciences
Colorado State University
1681 Campus Delivery
Fort Collins, CO 80523

TEL: (970) 491-7038
FAX: (970) 491-2940
E-Mail: John.Zimbrick@ColoState.edu

UNIVERSITY OF FLORIDA

Professor James S. Tulenko
Dept. of Nuclear & Radiological Engineering
University of Florida
P.O. Box 118300
202 Nuclear Science Center
Gainesville, FL 32611-8300

TEL: (352) 395-1401, ext. 314
FAX: (352) 392-3380
E-Mail: tulenko@ufl.edu

GEORGIA INSTITUTE OF TECHNOLOGY

Dr. Farzad Rahnema
Georgia Institute of Technology
Woodruff School of Mechanical Engineering
801 Ferst Drive, NW
Atlanta, GA 30332-0405

TEL: (404) 894-3731 or 3718
FAX: (404) 894-3733
E-Mail: farzad.rahnema@me.gatech.edu

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Dr. Sidney Yip
Massachusetts Institute of Technology
Dept. of Nuclear Science & Engineering
77 Massachusetts Avenue, Room 24-102A
Cambridge, MA 02139-4307

TEL: (617) 253-3809
FAX: (617) 258-7437
E-Mail: syip@mit.edu

UNIVERSITY OF MICHIGAN

Kimberlee J. Kearfott
Dept. of Nuclear Engineering & Radiological
Sciences
University of Michigan
1943 Cooley Building
2355 Bonisteel Boulevard
Ann Arbor, MI 48109-2104

TEL: (734) 763-9117
FAX: (734) 763-4540
E-Mail: kearfott@engin.umich.edu

UNIVERSITY OF MISSOURI-COLUMBIA

Dr. William H. Miller
Dept. of Nuclear Science and Engineering Institute
University of Missouri-Columbia
E2433 Lafferre Hall
Columbia, MO 65211

TEL: (573) 882-9692
FAX: (573) 884-4801
E-Mail: millerw@missouri.edu

UNIVERSITY OF NEVADA-LAS VEGAS

Professor Ken Czerwinski
University of Nevada-Las Vegas
Department of Chemistry
4505 Maryland Parkway
Box 454003
Las Vegas, NV 89154-4003

TEL: (702) 895-0501
FAX: (702) 895-3094
E-Mail: czerwin2@unlv.nevada.edu

NORTH CAROLINA STATE UNIVERSITY

Dr. Man-Sung Yim (Technical Coordinator)
Dept. of Nuclear Engineering
North Carolina State University
Box 7909, 1110 Burlington Laboratory
Raleigh, NC 27695-7909

TEL: (919) 515-1466
FAX: (919) 515-5115
E-Mail: yim@eos.ncsu.edu

OHIO STATE UNIVERSITY

Dr. Audeen Fentiman
Nuclear Engineering & Hydrogeology Programs
Ohio State University
2070 Neill Avenue
244 Hitchcock Hall
Columbus, OH 43210-1275

TEL: (614) 292-7930
FAX: (614) 292-3163
E-Mail: fentiman.1@osu.edu

OREGON STATE UNIVERSITY

Dr. David Hamby
Oregon State University
Dept. of Nuclear Engineering & Radiation
Health Physics
130 Radiation Center
Corvallis, OR 97331-5902

TEL: (541) 737-8682
FAX: (541) 737-0480
E-Mail: hambydm@ne.orst.edu

PRAIRIE VIEW A & M UNIVERSITY

Dr. Irvin W. Osborne-Lee
Associate Professor & Head
Chemical Engineering Department
P.O. Box 519, MS-2505
Prairie View, Texas 77446-0519

TEL: 936-261-9400
FAX: 936-261-9419
E-Mail: oslee@pvamu.edu

PURDUE UNIVERSITY

Dr. Tatjana Jevremovic
School of Nuclear Engineering
Purdue University
400 Central Drive
West Lafayette, IN 47907

TEL: (765) 494-4880
FAX: (765) 494-9570
E-Mail: tatjanaj@ecn.purdue.edu

UNIVERSITY OF TENNESSEE-KNOXVILLE

Dr. H. L. Dodds
University of Tennessee-Knoxville
Dept. of Nuclear Engineering
314 Pasqua Engineering Building
Knoxville, TN 37996-2300

TEL: (865) 974-2525
FAX: (865) 974-0668
E-Mail: utne@utk.edu

TEXAS A & M UNIVERSITY

Dr. John W. Poston, Sr.
Dept. of Nuclear Engineering
Texas A&M University
3133 TAMU
College Station, TX 77843-3133

TEL: (979) 845-4161
FAX: (979) 845-6443
E-Mail: poston@ne.tamu.edu

UNIVERSITY OF TEXAS-EL PASO

Dr. John Walton
Dept. of Environmental Science & Engineering
University of Texas-El Paso
150 University Way
El Paso, TX 79968-0513

TEL: (915) 747-8699
FAX: (915) 747-5145
E-Mail: walton@utep.edu

PRACTICUM CENTERS AND CENTER COORDINATORS

ARGONNE NATIONAL LABORATORY Ms. Lisa Reed
(630) 252-3366
Lreed@dep.anl.gov

ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY Dr. Jens Birkholzer
(BERKELY LAB) (510) 486-7134
JTBirkholzer@lbl.gov

IDAHO NATIONAL LABORATORY Ms. Una Tyng
(208) 526-1626
Una.Tyng@inl.gov

LAWRENCE LIVERMORE NATIONAL LABORATORY Ms. Pam Drumtra
(925) 423-9602
drumtra1@llnl.gov

LOS ALAMOS NATIONAL LABORATORY Dr. Schon S. Levy
(505) 667-9504
sslevy@lanl.gov

OAK RIDGE NATIONAL LABORATORY Mr. M. Carl Wheeler
(865) 241-6704
wheelerc@ornl.gov

PACIFIC NORTHWEST NATIONAL LABORATORY Dr. Brady Hanson
(509) 376-3760
brady.hanson@pnl.gov

SANDIA NATIONAL LABORATORY Dr. Kate Helean
(505) 284-9699
kbhelea@sandia.gov

UNITED STATES DEPARTMENT OF ENERGY
OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT Dr. Abe Van Luik
(702) 704-1424
Abe_VanLuik@ymp.gov

UNITED STATES GEOLOGICAL SURVEY Mr. Ken Skipper
(303) 903-5311
kskipper@usgs.gov

APPLICATION MATERIALS

COMPLETING THE FELLOWSHIP APPLICATION FORM

The fellowship application contains several different sections. It is important that you fill out these sections accurately.

Student Data Section

- **College/University and School Residence** - complete these sections for the school that is currently being attended. Write "N/A" (not applicable) if not currently enrolled in school. If permanent address is the same as school address, write "same" on the permanent address line.
- **Telephone Number** - Telephone numbers (including cell) are requested at both your school and permanent residence. Please make sure that the numbers listed are current. ORISE should be notified if there are telephone number changes after your application is submitted.
- **Educational Information** - List all universities attended. If currently enrolled in a graduate program, be sure to include it and give an anticipated graduation date. **Transcripts should be provided for each university listed.** If already in graduate school, the undergraduate transcript should show evidence of the completion of an undergraduate degree.
- **Grade Point Average** - if university grading scale is other than 4.0 (for example, 5.0 or 6.0) please re-compute to 4.0.
- **Graduate Records Examination** -The Graduate Records Examination is required; list scores if available. However, an official copy is still needed for the application file. Applicants should designate Oak Ridge Institute for Science and Education as a score report recipient, code number 1590, department number 00. Have the Educational Testing Services send your Graduate Records Examination (GRE) general aptitude scores directly to the address below. **Because of testing schedules and deadlines, applicants are advised to seek GRE testing information early.** The generally scheduled test dates in October and December are acceptable; however, test scores from the February date will not be received in time for the application review.
- **Participating University Choices** - Select two universities from the list of participating universities contained in this booklet. Whenever possible, a fellowship participant will be offered an appointment at the first choice university. Occasionally, however, the fellowship appointment may be offered at the second choice university. If an applicant's university preferences change after the application is submitted, ORISE must be notified immediately.

Note: Selecting universities on the OCRWM application is in no way related to completing an application for entrance to a graduate program at a specific university.

Current and Planned Courses

List courses currently being taken this academic year as well as the courses you plan to take next year. For example, if currently a graduating senior, list in the first half of the table all of the courses that will be taken during senior year. In the bottom half of the table, list the courses planned for the first year of graduate school. If you do not know what courses you will take during your first year of graduate school, it will be necessary for you to contact the coordinator at your first choice university to obtain a course listing.

Statement of Career and Academic Goals and Objectives

If desired, you may use more than one sheet for your career statement (the average length is one to two pages, double-spaced and typed).

References

Three reference forms are enclosed. Please remember that references must be returned to ORISE by the application deadline.

Applications for Other Programs

ORISE administers many other programs for the Department of Energy. Due to the large number of applications received, we can no longer make copies of an applicant's material in one application file for use in other application files. **If applying to more than one program, an applicant must submit separate application materials for each program. This includes transcripts and reference forms. Only GRE scores will be copied for files.** While this represents a change in policy from previous years, it provides more control to the applicant in ensuring that each application file is complete for each program.

Please note: All parts of the application, including GRE scores, must be received at Oak Ridge Institute for Science and Education by January 26, 2009. Late or incomplete applications will not be reviewed for awards.



**OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT
GRADUATE FELLOWSHIP PROGRAM**

NOTIFICATION OF INTENT TO APPLY

Please fax or mail this notification form to the address below as soon as possible after receiving this application form. This will alert the OCRWM Graduate Fellowship Program Office to expect an application from you. (NOTE: You may also e-mail the information requested to the OCRWM Graduate Fellowship Office at the e-mail address listed below).

The OCRWM Graduate Fellowship Program Office will place your notification on file and will contact you if your application is not complete by January 26, 2009.

NAME: _____
 First Middle Last Ext.

Please contact me regarding questions on my application at the following:

ADDRESS: _____

PHONE: _____ **CELL PHONE:** _____

FAX: _____

E-MAIL: _____

Return this form to:

**Elizabeth Keko
OCRWM Fellowship Program
Oak Ridge Institute for Science and Education
P.O. Box 117, MS-36
Oak Ridge, TN 37831-0117**

**Phone: (865) 241-7212
Fax: (865) 241-5220
E-Mail: elizabeth.keko@ornl.org**

OCRWM APPLICATION CHECKSHEET

This checklist is provided to assist applicants in accurately completing the application.



The application form is either typed or printed neatly in black ink.	
I have provided an address at which I may be reached after the completion of the Spring semester (page 1).	
If a Lawful Permanent Resident, a copy of my Alien Registration Card (both sides) is attached (page 1).	
I have requested transcripts to be sent to ORISE from each college or university I have attended (page 2).	
The undergraduate cumulative GPA I listed is a GPA from ALL undergraduate universities I have attended (page 2).	
The graduate cumulative GPA I listed is a GPA from ALL graduate universities I have attended (page 2.)	
I have or will soon be taking the Graduate Record Examination (page 2) which is required for this application.	
I have defined my first- and second-choice universities. I have labeled my first-choice with a 1 and my second-choice with a 2 in the left hand space. I have also listed the proposed academic discipline and specific topic of interest for my first-and second-choice universities (page 3).	
I understand that I must notify ORISE IMMEDIATELY if I wish to change my first- and second-choice universities. I also understand that once my application has been reviewed, I may not change my preferences (page 3).	
I have listed 3 individuals in the references section of the application and I have given those individuals the reference forms to fill out and return to ORISE. I understand that if these reference forms are not received by ORISE by the application deadline, my application will be considered incomplete and I will not be considered for a fellowship award (page 4).	
I have included page 6 in my application packet even if I have not attended graduate school. I have marked the page with N/A if I have not yet taken graduate courses.	
I have computed the overall GPA for all science, math and engineering courses and have included it at the bottom of pages 5 and 6.	
I have filled out the Planned Courses section of the application with all planned courses for this academic year (page 7). THIS IS MANDATORY FOR A COMPLETE APPLICATION.	
I understand the purpose of the fellowship program and have written my statement of career goals accordingly. On my statement I have included my signature (page 8).	
I do not have to submit the Applicant Data Sheet, but I understand that this information will not be given to those who will be evaluating my application and the information I provide will help ORISE assess its effectiveness in distributing application to a diverse population.	
I have included the OCRWM Graduate Fellowship Program Survey Form in my application packet.	



**U.S. Department of Energy
Office of Civilian Radioactive Waste Management Graduate Fellowship Program
Fellowship Application**

Instructions: Refer to the current fellowship program description before completing the application. Please note the deadlines for the receipt of application materials by Oak Ridge Institute for Science and Education (ORISE). Type or print all information clearly.

A completed application consists of the following required components:

1. Fellowship Application Form
2. Current Official* Transcript(s) from each college or university attended and Course Sheets
Note: Transcript(s) must be mailed by the university to the address below. If the applicant has already received a degree, the transcript should show evidence of completion of the degree program. *Unofficial transcript(s) will be accepted for review; **however official transcript(s) must be provided upon notification of receipt of an award.**
3. An official copy of the GRE scores is required. Unofficial scores will be accepted for review, but official copy of the GRE scores must be provided upon notification of receipt of an award. **The GRE is required for all applicants.**
4. Statement of Career and Academic Goals and Objectives
5. Reference Form. Submit three (3) references from faculty members. Have them each complete a Reference Form and mail directly to the address below. To return a reference form with the application packet, the applicant should have the person providing the reference place the form in an envelope, seal it and sign across the seal.

Please make sure that you have completed all parts of the application, including signing your name where requested. **Keep a copy of this application and supporting materials for your files.**

Incomplete applications and applications received after the deadline January 26, 2009 will not be reviewed. It is the applicant's responsibility to check with ORISE regarding the completeness of the application file.

Return the completed application and any correspondence to:

Elizabeth Keko
OCRWM Graduate Fellowship Program
Oak Ridge Institute for Science & Education
P.O. Box 117, MS-36
Oak Ridge, Tennessee 37831-0117

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Application information will be used solely for the purpose of selecting fellows and administering the program. Disclosure of this information is made subject to Public Law 93-579 (the Privacy Act of 1974) and U.S. Department of Energy Regulations as published in the Federal Register on September 30, 1977, ff.

OCRWM FELLOWSHIP SURVEY FORM

Dear Applicant:

Please complete this form and return it with your fellowship application. The information that you provide will allow us to target our advertising more effectively. This information is confidential and is **not** used in review of the fellowship application.

1. How did you find out about the program?

Bulletin Board Announcement

Advertising in Journal (list name of journal)

Word of Mouth

from faculty student administrator

Laboratory Staff

Campus Recruitment

Institutional Announcement

Campus Newspaper

Conference or Meeting (list name of meeting)

Internet Site (please list name of site)

Other (please list)

2. Have you applied for other fellowship programs? Yes No

If yes, please check the source below:

From ORISE (names of fellowships)

From other sources

University-Sponsored (names of fellowships)

Other (NSF, DOD, etc.)

3. Are you currently receiving any other federal funds? Yes No

If yes, please explain:

APPLICANT DATA

Applicant data is important in assessing the effectiveness of our efforts to solicit applications from a diverse population. Your completion and submission of this form will assist us in this regard. However, your failure to complete the form will not affect our decision regarding your application. We appreciate your cooperation.

RACE

- Caucasian (*Having origins in any one of the original peoples of Europe, North Africa, or the Middle East*)
- African American (*Having origins in any of the Black peoples of Africa*)
- Hispanic (*Of Mexican, Puerto Rican, Cuban, Central/South American or other Spanish culture of origin, regardless of race*)
- American Indian (*Having origins in any of the original peoples of North America, and maintaining cultural identification through tribal affiliation or community recognition*)
- Asian or Pacific Islander (*Having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Island - for example, India, China, Japan, Koreas, Philippine Islands, and Samoa*)

SEX Female Male **BIRTHDATE** _____
Month/Day/Year

Physical/Mental handicap (*physical or mental impairment that substantially limits one or more major life activities - for example, blindness, deafness, or mobility impairment*): Yes No

**U.S. DEPARTMENT OF ENERGY
OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT GRADUATE FELLOWSHIP PROGRAM
STUDENT APPLICATION**

STUDENT DATA (please type or black ink)

Name _____
(First) (Middle) (Last) (Ext)

Social Security Number _____

Current Academic Status: [] Undergraduate Student
[] Graduate Student
[] Baccalaureate Recipient Not Currently Enrolled
[] M.S. Recipient Not Currently Enrolled
[] Other _____

COLLEGE/UNIVERSITY _____

Department _____ Major _____

City _____ State _____ Zip _____ Phone _____

SCHOOL RESIDENCE _____

City _____ State _____ Zip _____ Phone _____

Address effective through: _____ After this date, all correspondence will be sent to the permanent address listed below unless otherwise requested.

PERMANENT ADDRESS _____

City _____ State _____ Zip _____ Phone _____

CELL PHONE _____ **FAX NUMBER** _____

E-MAIL ADDRESS _____

CITIZENSHIP - Attach copy of Alien Registration Receipt Card (both sides)

U.S. Citizen: [] Yes [] No If no, are you a Lawful Permanent Resident [] Yes [] No

If LPR, Country _____ LPR Number _____

Country of Birth _____ Port of Entry _____

DEGREE PROGRAM

I plan to pursue a [] Master's or [] Doctorate (check both boxes if a candidate for both degrees)

M.S. degree expected (date) _____

Ph.D. degree expected (date) _____

NOTE: Fellowship support is available for a maximum of four years (See page 2 of Program Description for additional information).

EDUCATION

List Technical Schools, Universities/Colleges. Begin with most current institution. **Transcripts are required from each institution listed below.**

Undergraduate Institutions

INSTITUTION	DATES ATTENDED	MAJOR	DEGREE RECEIVED	MONTH/YEAR	GPA

Graduate Institutions

INSTITUTION	DATES ATTENDED	MAJOR	DEGREE RECEIVED	MONTH/YEAR	GPA

GRADE POINT AVERAGE (Compute GPA for all institutions attended)

Use 4.0 scale to compute ($A=4, B=3, C=2, D=1$). **If university grading scale is other than 4.0 (for example, 5.0 or 6.0) please re-compute to 4.0. Please round to two decimal places.**

Undergraduate Cumulative GPA _____

Graduate Cumulative GPA _____

GRADUATE RECORD EXAMINATION (REQUIRED)

Verification of these scores is required. *(Note: Official Graduate Examination (GRE) Scores must be sent directly by the Educational Testing Service to ORISE/Office of Civilian Radioactive Waste Management Fellowship Program. The ORISE Institution Code is 1590, Dept. 00). The GRE is required for all applicants.*

GRE TEST RESULTS

DATE TEST TAKEN/TO BE TAKEN

EXAMINATION	SCORE	PERCENT (%)
Verbal		
Quantitative		
Analytical		

PARTICIPATING UNIVERSITY

Please indicate the participating university you plan to attend if awarded a fellowship. Please fill in the first column with a 1 beside your first choice university and a 2 beside your second choice university. You will only complete two rows of this table. **If, after submitting this application, you change your preferred university, please notify ORISE immediately.**

1 OR 2	UNIVERSITY	ACADEMIC DISCIPLINE	SPECIFIC TOPIC OF INTEREST
	University of California-Berkeley		
	Clemson University		
	University of Florida		
	Georgia Institute of Technology		
	Massachusetts Institute of Technology		
	University of Michigan		
	University of Missouri - Columbia		
	University of Nevada - Las Vegas		
	North Carolina State University		
	Ohio State University		
	Oregon State University		
	Prairie View A&M University		
	Purdue University		
	University of Tennessee - Knoxville		
	Texas A&M University		
	University of Texas - El Paso		
	Colorado State University		

EMPLOYMENT RECORD

Begin with current or most recent employment (*use extra page, if necessary*)

EMPLOYER	FROM/TO	POSITION	NATURE OF WORK

ACADEMIC AWARDS AND HONORS

Include undergraduate and graduate honors (*if applicable*).

EXTRACURRICULAR ACTIVITIES

Include technical societies and service organizations (*include offices held*).

REFERENCES

List three persons familiar with your academic preparation and your technical capabilities. Please have these individuals transmit the attached reference forms directly to ORISE (address on bottom of reference form).

1.
2.
3.

CURRENT AND PLANNED COURSES

If you are not currently enrolled in school and all of your completed courses are listed on the transcript submitted with this application, the Current Courses section does not apply (indicate N/A). **In all cases the Planned Courses section is required.** It may be necessary for you to contact your first choice university to obtain the required first year courses. **Please type or print clearly.**

CURRENT COURSES FOR THIS ACADEMIC YEAR

University: _____

COURSE TITLE	COURSE NUMBER	HOURS

PLANNED COURSES FOR THE NEXT ACADEMIC YEAR

If you are not currently enrolled in graduate school, it may be necessary for you to contact your first choice university to obtain the required first year courses. Please type or print clearly.

University: _____

COURSE TITLE	COURSE NUMBER	HOURS

Reference Form

Applicant (Please type or use black ink)

Last Name	First	Middle
How long and in what association have you known the applicant?		

In a group of 100 other science and math students of comparable age and experience, how would you rate the applicant with respect to the following:

PERSONAL CHARACTERISTICS

	Below Average	Average	Above Average	Outstanding	Superior	Inadequate Observation
<i>Motivation Toward a Productive Career</i>						
<i>Growth During Total Period Observed</i>						
<i>Imagination and Originality of Thought</i>						
<i>Emotional Maturity and Stability</i>						
<i>Ability to Work with Others</i>						
<i>Independence and Self-Reliance</i>						
<i>Leadership Potential</i>						

In a group of 100 other science and math students of comparable age and experience, how would you rate the applicant with respect to the following:

SCIENTIFIC CAPABILITIES

	Below Average	Average	Above Average	Outstanding	Superior	Inadequate Observation
<i>Mastery of Fundamental Knowledge in Field</i>						
<i>Skill/Originality of Research Project Design</i>						
<i>Laboratory Skill and Technique</i>						
<i>Ability to Communicate (Written/Oral)</i>						

Add any descriptive comments that will assist in providing a complete picture of the applicant's character, attitude, abilities, and potential for research. Please comment on both the applicant's weak and strong points. Use additional sheets if necessary.

COMMENTS:	
Signature:	Date:
Typed/Printed Name:	Title:
Address:	Phone:

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COMMENTS:	
Signature:	Date:
Typed/Printed Name:	Title:
Address:	Phone: