

ANNOUNCEMENT OF FEDERAL FUNDING OPPORTUNITY

EXECUTIVE SUMMARY

Federal Agency Name(s): National Ocean Service (NOS), National Oceanic And Atmospheric Administration, Department of Commerce

Funding Opportunity Title: National Estuarine Research Reserve Graduate Research Fellowship Program FY09

Announcement Type: Initial

Funding Opportunity Number: NOS-OCRM-2009-2001452

Catalog of Federal Domestic Assistance (CFDA) Number: 11.420, Coastal Zone Management Estuarine Research Reserves.

Dates: Applications must be submitted through www.grants.gov no later than 11 pm (EST) November 1, 2008 or postmarked no later than November 1, 2008.

Funding Opportunity Description: The National Estuarine Research Reserve System (NERRS) consists of estuarine areas of the United States and its territories which are designated and managed for research and educational purposes. Each reserve within the system is chosen to reflect regional differences and to include a variety of ecosystem types in accordance with the classification scheme of the national program as presented in 15 CFR part 921.

Each reserve supports a wide range of beneficial uses of ecological, economic, recreational, and aesthetic values which are dependent upon the maintenance of a healthy ecosystem. The sites provide habitats for a wide range of ecologically and commercially important species of fish, shellfish, birds, and other aquatic and terrestrial wildlife. Each reserve has been designed to ensure its effectiveness as a conservation unit and as a site for long-term research and monitoring. As part of a national system, the reserves collectively provide an excellent opportunity to address research questions and estuarine management issues of national significance. For detailed descriptions of the sites, refer to the NERR Web site at www.nerrs.noaa.gov/fellowship or contact the site staff.

FULL ANNOUNCEMENT TEXT

I. Funding Opportunity Description

A. Program Objective

Purpose: National Estuarine Research Reserve System (NERRS) research funds are provided to support management-related research projects that will enhance scientific understanding of the reserve ecosystem, provide information needed by reserve management and coastal management decision-makers, and improve public awareness and understanding of estuarine ecosystems and estuarine management issues (15 CFR 921.50).

The reserve system's Graduate Research Fellowship (GRF) Program offers qualified master's and doctoral students the opportunity to address scientific questions of local, regional and national significance. The result is high-quality research focused on improving coastal management issues.

All GRF projects must be conducted in a National Estuarine Research Reserve and enhance the scientific understanding of the reserve's ecosystem. While graduate research fellows receive hands-on experience, reserve managers and coastal decision-makers receive vital ecological data.

B. Program Priorities

The National Estuarine Research Reserve System is focusing on the following areas of research. Proposed research projects submitted in response to this announcement should address one of the following estuarine ecosystem topics:

Research Focus Areas

- * eutrophication, effects of non-point source pollution and/or nutrient dynamics
- * habitat conservation and/or restoration
- * biodiversity and/or the effects of invasive species
- * mechanisms for sustaining resources within estuarine ecosystems
- * economic, sociological, and/or anthropological research applicable to estuarine ecosystem management

Proposals must

1) address, through master's or doctoral research programs, coastal management issues identified as having local, regional, and/or national significance within the "Research Focus Areas" identified above, and

2) be conducted within one or more of the designated reserve(s). Proposals must clearly specify which focus area is being addressed and how it relates to research needs and priorities of the reserve or reserve system.

Note: Although the areas of coastal and estuarine research interest identified above may be considered national in scope, they relate to and encompass regional and local issues unique to the environments of the individual reserves. It is strongly suggested that applicants contact the intended host reserve(s) (see Appendix I) for specific information about the reserve(s) and the accompanying research needs and priorities as they relate to this announcement. Applicants should determine whether their proposed projects are relevant to the reserve's(s) site specific research needs.

C. Program Authority

Section 315 of the Coastal Zone Management Act of 1972, as amended CZMA), 16 U.S.C. 1461, establishes the National Estuarine Research Reserve System (NERRS). 16 U.S.C. 1461 (e)(1)(B) authorizes the Secretary of Commerce to make grants to any coastal state or public or private person for purposes of supporting research and monitoring within a National Estuarine Research Reserve that are consistent with the research guidelines developed under subsection (c).

II. Award Information

A. Funding Availability

The National Estuarine Research Reserve System of NOAA announces the availability of graduate research fellowships. The Estuarine Reserves Division anticipates that 25 Graduate Research Fellowships will be competitively awarded to provide funding to qualified graduate students whose research occurs within the boundaries of at least one reserve. Minority students are encouraged to apply. The amount of the fellowship is \$20,000; at least 30% of total project cost match is required by the applicant (i.e. \$8,572 match for \$20,000 in federal funds for a total project cost of \$28,572).

B. Project/Award Period

This program announcement is for projects to be conducted by graduate students for one, two, or three-year periods of funding, with an anticipated start date of June 1, 2009. If an application is selected for only one year of funding, the NERR program has no obligation to provide additional funding in connection with that award in subsequent years. The applicant can, however, re-apply to the program at another time by following the same competitive process. An applicant cannot be supported for more than a total of three years under this fellowship. When a multi-year proposal is approved (two or three year award) the applicant does not need to re-apply for the second or third year of the program. Initially, funding will be provided for only the first year of the program; for each subsequent year of a multi-year proposal funding will be made available based on availability of funds and satisfactory progress of research as determined by the host reserve and the applicant's faculty advisor, in consultation with NOAA's Estuarine Reserves Division.

C. Type of Funding Instrument

The funding instrument for NERRS graduate research fellowship awards will be a grant.

III. Eligibility Information

A. Eligible Applicants

Awards are normally made to the fellow's graduate institution through the use of a grant. However, institutions eligible to receive awards include institutions of higher education, other non-profits, commercial organizations, and state and local governments. All reserve staff are ineligible to submit an application for a fellowship under this announcement. Funds are expected to be available on a competitive basis to qualified graduate students for research within a reserve(s) leading to a graduate degree. Applicants must be admitted to or enrolled in a full-time master's or doctoral program at a U.S. accredited university in order to be eligible to apply. Applicants should have completed a majority of their graduate course work at the beginning of their fellowship and have an approved thesis research program. Minority students are encouraged to apply.

B. Cost Sharing or Matching Requirement

Requested federal funds must be matched by at least 30 percent of the TOTAL cost, not the federal share, of the project (i.e. \$8,572 match for \$20,000 in federal funds for a total project cost of \$28,572). Requested overhead costs and institutional fees that do not qualify as direct costs under fellowship awards are limited to 10% of the federal amount. Waived overhead costs may be used as match.

C. Other Criteria that Affect Eligibility

No more than two fellowships at any one reserve will be funded at one time. Based upon fellowships awarded in the 2008 funding cycle, we anticipate 30 openings for fellowships in 2009. The amount of each fellowship award is expected to be \$20,000, which will be available to all current and prospective fellows and is intended to provide any combination of research support, salary, tuition, supplies, or other costs as needed, including overhead. Awards are issued as grants to the recipient institution.

Graduate student fellows who are selected for funding will be required to: 1) work with the research coordinator or manager at the host reserve to develop a plan, relevant to the student_s research, to participate in the reserve_s research, monitoring, stewardship, education, or coastal training programs for up to 15 hours per week (Fellows conducting multi-site projects may fulfill this requirement at one or a combination of sites); 2) submit semi-annual progress reports to the Estuarine Reserves Division through <https://grantsonline.rdc.noaa.gov> with the assistance of the applicant_s Office of Sponsored Programs and send a copy of the reports with the host reserve via electronic copy at the end of each 6 month period on the research accomplishments to date; and 3) acknowledge NERRS support in all relevant scientific presentations and publications. In addition, fellows are strongly encouraged to publish their results in peer-reviewed literature and make presentations at local, national and international scientific meetings.

Fellowships are expected to be available at the following sites:

NERR Site	Openings
Ace Basin, SC	2
Chesapeake Bay, MD	2
Chesapeake Bay, VA	1
Elkhorn Slough, CA	1
Grand Bay, MS	2
Great Bay, NH	1
Guana-Tolomato-Matanzas, FL	1
Hudson River, NY	1
Jacques Cousteau, NJ	1
Jobos Bay, PR	1

Kachemak Bay, AK	1	
Mission-Aransas, TX	2	
Narragansett Bay, RI	1	
North Carolina, NC	1	
North Inlet Winyah Bay, SC	2	
Old Woman Creek, OH	2	
Padilla Bay, WA	1	
Rookery Bay, FL	2	
San Francisco Bay, CA	1	
Sapelo Island, GA	2	
Weeks Bay, AL	1	
Wells, ME		1

The Estuarine Reserves Division, Office of Ocean and Coastal Resource Management, reserves the right to immediately halt activity under the award if it becomes obvious that award activities are not fulfilling the mission of the National Estuarine Research Reserve System. Non-compliance with a federally approved project may result in immediate halting of the award. For applicants awarded more than one year of funding, the Estuarine Reserves Division will review and approve each stage of work annually before the next begins to assure that studies will produce viable information on which to form valid coastal management decisions.

IV. Application and Submission Information

A. Address to Request Application Package

For program and proposal information, contact Alison Krepp of the Estuarine Reserves Division at 301-713-3155 ext. 105 or via internet at Alison.Krepp@noaa.gov. The text of the full announcement can also be viewed at the following website address: www.nerrs.noaa.gov/fellowship. For further information on specific research opportunities at National Estuarine Research Reserves, contact the site staff listed in Appendix I. All application materials noted below must be submitted via www.grants.gov. It is highly encouraged that all pieces of the application (except federal forms) be submitted through grants online as one pdf document. Please work with your Office of Sponsored Programs to submit your application. Your institution must be registered with www.grants.gov in order to submit your application; please see the aforementioned Web site for instructions if your institution is not registered.

B. Content and Form of Application

Receipt of all applications will be acknowledged via email. Subsequently, applications will be merit reviewed and applicants will be notified via email of the selection. Below are the required elements for a complete application.

1. Federal Forms

Federal application forms including SF424, SF424A(s), SF424B and CD511 must be completed. For all applications the SF424 form has to include the full amount to be awarded during the course of the entire fellowship. For example: \$20,000 (1 yr), \$40,000 (2 yrs) or \$60,000 (3yrs). The match should be specified accordingly: \$8, 572 (1 yr); \$17,143 (2 yrs); and \$25,715 (3yrs).

For a multi-year proposal (2 or 3 year award) a SF424A will need to be submitted for each year of funding indicating the federal and nonfederal amount (i.e., a 3 year award requires the submission of three SF424A forms, one for each year of funding with each requesting \$20,000 for federal funds and reflecting a minimum of \$8,572 for nonfederal match funds). In section B of the SF 424A form, federal and non-federal funds need to be outlined in separate columns. The budget narrative of the application has to reflect the total amount of the award provided in the SF424 form. The Estuarine Reserves Division recommends that all applicants work with their Office of Sponsored Programs to complete these forms.

2. Academic resume or a curriculum vitae that includes all graduate and undergraduate institutions (department or area of study, degree, and year of graduation), all publications (including undergraduate and graduate theses), awards or fellowships, and work/research experience.

3. Cover letter indicating current academic status, research interests, career goals, and how the proposed research fits into their degree program. It is strongly suggested that the results of discussions with the host reserve regarding their contributions to the reserve's research and/or monitoring program be included in the letter.

4. Unofficial copy of all undergraduate and graduate transcripts.

5. Signed letter of support and recommendation from the applicant_s graduate advisor including a) a description of the advisor_s contribution (financial and otherwise) to the applicant_s graduate studies, b) an assurance that the student is in good academic standing, and c) and any other recommendations the advisor offers for the applicant.

6. Two signed letters of recommendation from a source other than the applicant_s graduate advisor must be submitted through e-mail (with electronic signature or scanned original) or hard copy to Alison Krepp at 1305 East-West Highway, N/ORM5, SSMC4, Station 10503, Silver Spring, MD, 20910. It is strongly

encouraged that a signed electronic or hard copy of these letters be also sent to the Office of Sponsored Programs so that they can be included with the application package when submitted on www.grants.gov.

7. Research proposal must be double-spaced in 12-point Times New Roman font with one inch margins. The proposal must include the following:

- a. Title page which must include the items below in the following order:
 - * Project title;
 - * Name, address, telephone and fax number, email address, date, and signature of applicant;
 - * Amount of funding requested;
 - * Name of institution providing matching funds and amount of matching funds;
 - * Degree being sought;
 - * Name, address, telephone number and fax number, email address, date, and signature of graduate advisor;
 - * Reserve(s) where research is to be conducted;
 - * Number of years of requested support;
 - * Focus area that research proposal is addressing (see Section I. B).

b. Abstract. The abstract must state the research objectives, scientific methods to be used, and the significance of the project to a particular reserve and the reserve program. The abstract must be limited to one double-spaced page.

c. Project Description. The project description must be limited to 6 double-spaced pages excluding figures. The main body of the proposal must include a detailed statement of the work to be undertaken and the following components:

1. Introduction. This section should introduce the research setting and environment. It should include a brief review of pertinent literature and describe the research problem in relation to relevant coastal management issues and the reserve research priorities. This section should identify the primary hypotheses, as well as any additional or component hypotheses which will be addressed by the research project.

2. Methods. This section should state the method(s) to be used to accomplish the specific research objectives, including a systematic discussion of what, when, where, and how the data are to be collected, analyzed, and reported. Field and laboratory methods should be scientifically valid and reliable and should be accompanied by a statistically sound sampling scheme. Methods chosen should be justified and compared with other methods employed for similar work. Techniques should allow the testing of the hypotheses, but should also provide baseline data related to ecological and management questions concerning the reserve environment. Methods should be described concisely and techniques should be reliable enough to allow comparison with those made at different sites and times by different investigators.

Analytical methods and statistical tests applied to the data should be documented, thus providing a rationale for choosing one set of methods over alternatives. Quality

control measures also should be documented (e.g., statistical confidence levels, standards of reference, performance requirements, internal evaluation criteria). The proposal should indicate by way of discussion how data are to be synthesized, interpreted and integrated into final work products. Social science applicants should describe the sampling and/or data collection methods including surveys, evaluation research, interviews (focus group and/or personal), participant observation, questionnaires, etc. Applicants should also describe the research design (experimental and quasi-experimental) and methods for data analysis.

3. A Map clearly showing the study location and any other features of interest must be included; a U.S. Geological Survey topographic map, or an equivalent, is suggested for this purpose. Consultation with reserve personnel to identify existing maps is strongly recommended.

4. Project Significance. This section should provide a clear discussion of a milestone schedule. This schedule should show, in table form, anticipated dates for completing field work, data collection, data analysis, reporting and other related activities. Use "Month 1, Month 2, etc." rather than "June, July, etc.," in preparing these charts.

e. Personnel and Project Management. The proposal must include a description of how the project will be managed, including the names and expertise of faculty advisors and other team members. Evidence of ability to successfully complete the proposed research should be supported by reference to similar efforts previously performed.

f. Literature Cited. This section should provide complete references for literature, research, and other appropriate published and unpublished documents cited in the text of the proposal.

8. Proposed budget. The amount of federal funds requested must be matched by the applicant's institution by at least 30% of the total project cost. For example:
One year project: \$8,572 match; \$20,000 federal funds; total project cost \$28,572
Two year project: \$17,143 match; \$40,000 federal funds; total project cost \$57,143
Three year project: \$25,715 match; \$60,000 federal funds; total project cost \$85,715

Cash or in-kind contributions directly benefiting the research project may be used to satisfy the matching requirements. Waived overhead costs may also be used as match. Funds from other federal agencies and reserve staff salaries supported by federal funds may not be used as match. Up to 10% of the federal share may be used for overhead or indirect costs, including institutional fees. Requirements for the non-federal share are contained in 15 CFR Part 14, Uniform administrative requirements for grants and agreements with institutions of higher education, hospitals, other nonprofit and commercial organizations and 15 CFR Part 24, Uniform administrative requirements for grants and agreements to state and local governments. The Estuarine Reserves Division strongly suggests that the applicant work with their institution's sponsored programs office to develop their budget. The applicant may request funds under any of the following categories as long as the

costs are reasonable and necessary to perform research: personnel, fringe benefits, travel, equipment, supplies, contractual, construction, other, and indirect. The budget should contain itemized costs with appropriate narratives justifying proposed expenditures. Applicants must supply a table showing allocations using budget categories listed below. The federal and match portion should be listed side by side for each year of requested funding. Please see below for further details.

--Personnel. Salaries requested must be consistent with the institution's regular practices. The submitting organization may request that salary data remain confidential.

--Fringe Benefits. Fringe benefits (i.e., social security, insurance, retirement) may be treated as direct costs as long as this is consistent with the institution's regular practices.

--Travel. The type, extent, and estimated cost of travel should be explained and justified in relation to the proposed research; the justification should also identify the person traveling. Travel expenses are limited to round trip travel to field research locations and professional meetings to present the research results and should not exceed 40 percent of total award.

--Equipment. Fellowship funds may be approved for the purchase of equipment only if the following conditions are met: (a) a lease versus purchase analysis has been conducted by the applicant or the applicant's institution for equipment that costs greater than \$5000 and the analyses indicate that purchase is the most economical method of procurement; (b) the equipment does not exist at the recipient's institution or the reserve site; and, the equipment is essential for the successful completion of the project.

The justification must address each of these criteria. It must also describe the purpose of the equipment and provide a justification for its use. Additionally, it must include a list of equipment to be purchased, leased, or rented by model number and manufacturer, where known. At the termination of the fellowship, disposition of equipment will be determined by the NOAA Property Administrator.

--Supplies. The budget should indicate in general terms the types of expendable materials and supplies required and their estimated costs.

9. Requests for reserve support services. On-site reserve personnel sometimes can provide limited logistical support for research projects in the form of manpower, equipment, supplies, etc. If applicable, any request for reserve support services, including any services provided as match, should be approved by the reserve manager or research coordinator prior to application submission and be included as part of the application package in the form of written correspondence. Reserve resources which are supported by federal funds are not eligible to be used as match.

10. Coordination with other research in progress or proposed. The Estuarine Reserves Division encourages collaboration and cost-sharing with other investigators

to enhance scientific capabilities and avoid unnecessary duplication of effort. Applications should include a description of how the research will be coordinated with other research projects that are in progress or proposed, if applicable.

11. Permits. The applicant must apply for any applicable local, state or federal permits. A copy of any permit applications and supporting documentation should be attached to the application as appendices. The Estuarine Reserves Division must receive notification of the approval of the permit application before funding can be approved. Please note if not applicable.

C. Submission Dates and Times

Applications must be submitted through www.grants.gov no later than 11 pm (EST) November 1, 2008 or postmarked no later than November 1, 2008.

D. Intergovernmental Review

Applications under this program are subject to Executive Order 12372, "Intergovernmental Review of Federal Programs." Applicants should contact their State Single Point of Contact (SPOC) to find out about and comply with the State's process under EO12372. The names and addresses of the SPOCs are listed in the Office of Management and Budget's Web site at <http://www.whitehouse.gov/omb/grants/spoc.html>.

E. Funding Restrictions

Requested overhead costs and institutional fees that do not qualify as direct costs under fellowship awards are limited to 10% of the federal amount.

F. Other Submission Requirements

Applications must be submitted through www.grants.gov, unless an applicant does not have internet access. In that case, hard copies with original signatures may be sent to:

Alison Krepp
Graduate Research Fellowship Coordinator
NOAA Estuarine Reserves Division
1305 East West Highway
N/ORM 5 SSMC 4
Station 10503
Silver Spring MD 20910

V. Application Review Information

A. Evaluation Criteria

Research projects proposed in response to this announcement must: 1) address through their master's or doctoral research coastal management issues identified as having local, regional, and/or national significance, described in the "Focus Areas" (Section I); and 2) be conducted within one or more designated reserve(s). No more than two fellowships at any one reserve will be funded at any one time.

Proposals will be evaluated on the basis of the following evaluation criteria at the indicated weights:

- (1) Academic record and statement of career goals and objectives (5 percent)
- (2) Quality of research and applicability to program priorities (90 percent): This 90 percent will be broken down as follows: A. The quality of proposed research (60%). B. The research's applicability to specific reserve research and resource management goals as they relate to the NERRS research focus areas in Section I of this announcement (30%).
- (3) Recommendations/endorsements (5 percent)
- (4) Additional relevant experience (0 percent)
- (5) Financial need (0 percent)

B. Review and Selection Process

Once applications have been received by NOAA through www.Grants.gov, an initial administrative review is conducted to determine compliance with requirements and completeness of the application. All proposals will be evaluated for scientific merit by no less than three reviewers from the scientific community. The research coordinator and/or reserve manager or Estuarine Reserve Division Coordinator will oversee the review process. Efforts are taken to ensure that conflicts of interest are avoided. It is permissible for applicants to suggest those people whom they feel would have a conflict of interest and therefore not appropriate to review their proposal. The merit reviewers' ratings are used to produce a rank order of the

proposals. The Selecting Official shall award in the rank order unless the proposal is justified to be selected out of rank order based upon one of the selection factors identified below. The Selecting Official makes final recommendations for awards to the Grants Officer who is authorized to obligate the funds and execute awards.

C. Selection Factors

The Selecting Official may choose a proposal out of rank order based on the following:

1. Balance/Distribution of funds:
 - a. Across academic disciplines
 - b. By types of institutions
 - c. Geographically
2. Availability of funds
3. Program-specific objectives
4. Degree in scientific area and type of degree sought

D. Anticipated Announcement and Award Dates

Funding recommendations should be announced via email by the end of February 2009.

It is anticipated that applicants will be notified of their recommendation or rejection for funding by the end of February 2009 via email. The graduate student's advisor and the research coordinator at the student's host reserve will be copied on this correspondence. NOAA's Grants Management Division is the only entity authorized to provide a grant award. Therefore, once the applicant's above-mentioned federal financial assistance forms have been submitted and approved, NOAA's Grants Management Division will make the grant award to the applicant by June 1, 2009.

VI. Award Administration Information

A. Award Notices

It is anticipated that applicants will be notified of their recommendation or rejection for funding by the end of February 2008 via email. The graduate student's advisor and the research coordinator at the student's host reserve will be copied on this correspondence. NOAA's Grants Management Division is the only entity authorized to provide a grant award. Therefore, once the applicant's above-mentioned federal financial assistance forms have been submitted and approved, NOAA's Grants Management Division will make the grant award to the applicant by June 1, 2009.

B. Administrative and National Policy Requirements

The Department of Commerce Pre-Award Notification Requirements for Grants and Cooperative Agreements

Pre-award Notification Requirements for Grants and Cooperative Agreements - The Department of Commerce Pre-Award Notification Requirements for Grants and Cooperative Agreements contained in the Federal Register notice of February 11, 2008 (73 FR 7696) are applicable to this section.

Limitation of Liability

In no event will NOAA or the Department of Commerce be responsible for proposal preparation costs if these programs fail to receive funding or are cancelled because of other agency priorities. Publication of this announcement does not oblige NOAA to award any specific project or to obligate any available funds.

National Environmental Policy Act (NEPA)

NOAA must analyze the potential environmental impacts, as required by the National Environmental Policy Act (NEPA), for applicant projects or proposals which are seeking NOAA Federal funding opportunities. Detailed information on NOAA compliance with NEPA can be found at the following NOAA NEPA Web site: <http://www.nepa.noaa.gov/>, including our NOAA Administrative Order 216-6 for NEPA, <http://www.nepa.noaa.gov/NAO216--6--TOC.pdf>, and the Council on Environmental Quality implementation regulations, http://ceq.eh.doe.gov/nepa/regs/ceq/toc_ceq.htm. Consequently, as part of an applicant's package, and under their description of their program activities, applicants are required to provide detailed information on the activities to be conducted, locations, sites, species and habitat to be affected, possible construction activities, and any environmental concerns that may exist (e.g., the use and disposal of hazardous or toxic chemicals, introduction of non-indigenous species, impacts to endangered and threatened species, aquaculture projects, and impacts to coral reef systems). In addition to providing specific information that will serve as the basis for

any required impact analyses, applicants may also be requested to assist NOAA in drafting an environmental assessment, if NOAA determines an assessment is required. Applicants will also be required to cooperate with NOAA in identifying and implementing feasible measures to reduce or avoid any identified adverse environmental impacts of their proposal. The failure to do so shall be grounds for the denial of an application.

The terms and conditions of NOAA's National Estuarine Research Reserve Graduate Research Fellowship awards are described in Appendix 2 of this announcement.

C. Reporting

Applicants selected for funding will submit semi-annual performance reports via NOAA's online system at <https://grantsonline.rdc.noaa.gov> through the institution's Office of Sponsored Research. Reports shall be submitted 30 days after the completion of every six month period after the project start date and a final performance report shall be submitted via <https://grantsonline.rdc.noaa.gov> 90 days after the project period ending date. Please note that recipients who do not submit final reports within one year after the award end date may put their institution at risk for receiving future awards. Recipients will be provided with the guidelines for these reports upon receiving the award. These guidelines are also located in Appendix 2 of this announcement. Financial status reports are also required every six months. These reports should be submitted by the recipient to NOAA's Grants Management Division.

VII. Agency Contacts

For questions regarding the program and application process, please contact Alison Krepp (301-713-3155 ext. 105) at NOAA/Estuarine Reserves Division, 1305 East-West Highway, N/ORM5, SSMC4, Station 10503, Silver Spring, MD 20910 or via email: Alison.Krepp@noaa.gov, or fax: 301-713-4012. The program Website can be accessed at www.nerrs.noaa.gov/fellowship. If the Web page does not provide sufficient information and Alison Krepp is unavailable, please contact Erica Seiden at (301) 713-3155 ext. 172 or erica.seiden@noaa.gov.

For further information on specific research opportunities at National Estuarine Research Reserves, contact the site staff listed in Appendix I.

VIII. Other Information

Appendix I. NERRS ON-SITE STAFF

Alabama

Mr. L.G. Adams, Manager
Dr. Scott Phipps, Research Coordinator
Weeks Bay National Estuarine Research Reserve
11300 U.S. Highway 98
Fairhope, AL 36532
(251) 928-9792
lg.adams@dcnr.alabama.gov
scott.phipps@dcnr.alabama.gov

Alaska

Mr. Terry Thompson, Acting Manager
Dr. Daniel Doolittle, Research Coordinator
Kachemak Bay National Estuarine Research Reserve
Department of Fish and Game
95 Sterling Highway, Suite 2
Homer, AK 99603
(907) 235-4799
terry.thompson@alaska.gov
daniel.doolittle@alaska.gov

California

Ms. Becky Suarez, Manager
Dr. Kerstin Wasson, Research Coordinator
Elkhorn Slough National Estuarine Research Reserve
1700 Elkhorn Road
Watsonville, CA 95076
(831) 728-2822
bchristensen@dfg.ca.gov
kerstin.wasson@gmail.com

Mr. Clayton Phillips, Manager
Dr. Jeffrey Crooks, Research Coordinator
Tijuana River National Estuarine Research Reserve
301 Caspian Way
Imperial Beach, CA 91932
(619) 575-3613
cphillip@parks.ca.gov
jcrooks@tijuanaestuary.org

Dr. Jaime Kooser, Manager
Dr. Drew Talley, Research Coordinator
San Francisco Bay National Estuarine Research Reserve
Romberg Tiburon Center

3152 Paradise Drive
Tiburon, CA 94920
(415) 338-3707
jkooser@sfsu.edu
dtalley@sfsu.edu

Delaware

Ms. Kimberly Cole, Manager
Dr. Bob Scarborough, Research Coordinator
Delaware National Estuarine Research Reserve
Department of Natural Resources and Environmental Control
818 Kitts Hummock Road
Dover, DE 19901
(302) 739-3436
Kimberly.Cole@state.de.us
Bob.Scarborough@state.de.us

Florida

Mr. Seth Blich, Manager
Mr. Lee Edmiston, Research Coordinator
Apalachicola River National Estuarine Research Reserve
Florida Department of Environmental Protection
350 Carroll Street
Eastpoint, FL 32320
(850) 653-8063
seth.blich@dep.state.fl.us
lee.edmiston@dep.state.fl.us

Dr. Michael Shirley, Manager
Dr. Rick Gleeson, Research Coordinator
Guana Tolomato Matanzas National Estuarine Research Reserve
Florida Department of Environmental Protection
9741 Ocean Shore Boulevard
Marineland, FL 32080
(904) 823-4500
Michael.Shirley@dep.state.fl.us
rglee@whitney.ufl.edu

Mr. Gary Lytton, Manager
Ms. Vicki McGee, Water Quality Project Manager
Rookery Bay National Estuarine Research Reserve
Department of Environmental Protection
300 Tower Road
Naples, FL 34113-8059
(239) 417-6310
gary.lytton@dep.state.fl.us

vicki.mcgee@dep.state.fl.us

Georgia

Mr. Buddy Sullivan, Manager
Mr. Dorset Hurley, Research Coordinator
Sapelo Island National Estuarine Research Reserve
P.O. Box 15
Sapelo Island, GA 31327
(912) 485-2251
buddy@darientel.net
dhurley@darientel.net

Maine

Mr. Paul Dest, Manager
Dr. Michele Dionne, Research Coordinator
Wells National Estuarine Research Reserve
342 Laudholm Farm Road
Wells, ME 04090
(207) 646-1555
dest@wellsnerr.org
dionne@wellsnerr.org

Maryland

Ms. Beth Ebersole, Manager
Dr. Patricia Delgado, Research Coordinator
Chesapeake Bay National Estuarine Research Reserve, MD
Department of Natural Resources
Tawes State Office Building, E-2
580 Taylor Avenue
Annapolis, MD 21401
(410) 260-8713
bebersole@dnr.state.md.us
pdelgado@dnr.state.md.us

Massachusetts

Mr. Brendan Annett, Manager
Dr. Chris Weidman, Research Coordinator
Waquoit Bay National Estuarine Research Reserve
Department of Environmental Management
P. O. Box 3092
Waquoit, MA 02536
(508) 457-0495
brendan.annett@state.ma.us
chris.weidman@state.ma.us

Mississippi

Mr. David Ruple, Manager
Dr. Mark Woodrey, Research Coordinator
Grand Bay National Estuarine Research Reserve
Department of Marine Resources
6005 Bayou Heron Road
Moss Point, MS 39562
(228) 475-7047
david.ruple@dmr.ms.gov
msw103@ra.msstate.edu

New Hampshire

Mr. Peter Wellenberger, Manager
Dr. Kathy Mills, Research Coordinator
Great Bay National Estuarine Research Reserve
New Hampshire Department of Fish and Game
225 Main Street
Durham, NH 03824
(603) 868-1095
Peter.wellenberger@wildlife.nh.gov
Katherine.Mills@wildlife.nh.gov

New Jersey

Mr. Michael De Luca, Manager
Dr. Michael Kennish, Research Coordinator
Jacques Cousteau National Estuarine Research Reserve
Institute of Marine and Coastal Sciences
Rutgers University
130 Great Bay Boulevard
Tuckerton NJ 08087
(609) 294-4867
deluca@marine.rutgers.edu
kennish@marine.rutgers.edu

New York

Ms. Elizabeth Blair, Manager

Norrie Point Environmental Center
P.O. Box 315
(845) 889-4745
bablair@gw.dec.state.ny.us

North Carolina

Ms. Rebecca Ellin, Manager
Dr. John Fear, Research Coordinator

North Carolina National Estuarine Research Reserve
101 Pivers Island Road
Beaufort NC 28516
(252) 808-0880
Rebecca.Ellin@ncmail.net
John.Fear@ncmail.net

Ohio

Mr. Frank Lopez, Manager
Dr. David Klarer, Research Coordinator
Old Woman Creek National Estuarine Research Reserve
2514 Cleveland Road
East, Huron, OH 44839
(419) 433-4601
frank.lopez@oldwomancreek.org
david.klarer@oldwomancreek.org

Oregon

Mr. Michael Graybill, Manager
Dr. Steve Rumrill, Research Coordinator
South Slough National Estuarine Research Reserve
P.O. Box 5417
Charleston, OR 97420
(541) 888-5558
mike.graybill@state.or.us
steve.rumrill@state.or.us

Puerto Rico

Mr. Luis Encarnacion, Manager
Dr. Angel Dieppa, Research Coordinator
Jobos Bay National Estuarine Research Reserve
Puerto Rico Department of Natural and Environmental Resources
P.O. Box 159
Aguirre, PR 00704
(787) 853-4617
lencarnacion@jbnerr.org
adiemma@gmail.com

Rhode Island

Mr. Bob Stankelis, Manager
Dr. Kenny Raposa, Research Coordinator
Narragansett Bay National Estuarine Research Reserve
Department of Environmental Management
Box 151
Prudence Island, RI 02872

(401) 683-6780
Bob.stankelis@dem.ri.gov
kenny@nbnerr.org

South Carolina

Mr. Phil Maier, Manager
Dr. Elizabeth Wenner, Research Coordinator
Ashepoo-Combahee-Edisto (ACE) Basin
South Carolina Department of Natural Resources
P.O. Box 12559
Charleston, SC 29412
(843) 953-9001
maierp@dnr.sc.gov
wennere@dnr.sc.gov

Ms. Wendy Allen, Manager
Dr. Erik Smith, Research Coordinator
North Inlet-Winyah Bay National Estuarine Research Reserve
Baruch Marine Field Laboratory
P. O. Box 1630
Georgetown, SC 29442
(843) 546-6219
wendy@belle.baruch.sc.edu
erik@belle.baruch.sc.edu

Texas

Sally Morehead, Manager
Dr. Edward J. Buskey, Research Coordinator
University of Texas at Austin
Marine Science Institute
750 Channel View Drive
Port Aransas, Texas 78373, USA
Phone: 361-749-6741
sally.morehead@utmsi.utexas.edu
ed.buskey@utmsi.utexas.edu

Virginia

Dr. William Reay, Manager
Dr. Ken Moore, Research Coordinator
Chesapeake Bay National Estuarine Research Reserve, VA
Virginia Institute of Marine Science
College of William and Mary
P.O. Box 1346
Gloucester Point, VA 23062

(804) 684-7135
wreay@vims.edu
moore@vims.edu

Washington

Mr. Terry Stevens, Manager
Dr. Douglas Bulthuis, Research Coordinator
Padilla Bay National Estuarine Research Reserve
10441 Bay View-Edison Road
Mt. Vernon, WA 98273-9668
(360) 428-1558
tstevens@padillabay.gov
bulthuis@padillabay.gov

Appendix II Graduate Research Fellowship Programmatic Special Award Conditions
and Reporting Guidelines

NOAA Programmatic Special Award Conditions
NERR GRF AWARD TERMS AND CONDITIONS

1. Semi-annual performance reports shall be submitted 30 days after the completion of every six month period after the project start date and a final performance report shall be submitted 90 days after the project period ending date via NOAA's grants online system at <https://grantsonline.rdc.noaa.gov>. Please use the guidelines provided at <http://nerrs.noaa.gov/Fellowship/Application.html>. Fellows must also submit these reports via email to their advisor and the research coordinator at their host reserve.
2. Fellows will be expected to participate in the reserve's research and monitoring program for up to a maximum of 15 hours per week. The work plan should be devised cooperatively with the reserve's research coordinator. Fellows are responsible for meeting with reserve staff to coordinate this work plan. Information about this component of the fellowship must be included in the semi-annual performance reports.
3. Any database developed under this award will be transferred to a CD or provided as a .pdf electronically and free of charge to the applicable National Estuarine Research Reserve and NOAA's Estuarine Reserves Division.
4. Manuscripts resulting from NOAA/OCRM-sponsored research that are submitted to refereed scientific journals for publication in open literature shall acknowledge that the research was conducted under an award from the Estuarine Reserves Division, Office of Ocean and Coastal Resource Management, National Ocean Service, National Oceanic and Atmospheric Administration.
5. Prior to initiating the project, the fellow shall contact the reserve manager or research coordinator to coordinate all on-site aspects of the project, including, where

applicable, the location and establishment of sampling sites, projected field sampling dates, accommodation reservations, and the need and timing for personnel assistance.

GUIDELINES FOR PREPARING SEMI-ANNUAL REPORTS

National Estuarine Research Reserve
Graduate Research Fellowships

Fellows are required to submit Semiannual Progress Reports (SPR) to the Office of Ocean and Coastal Resource Management (OCRM) via <https://grantsonline.rdc.noaa.gov> at the completion of every six months of the award. If the project is extended for a period less than 6 months, an additional SPR should be submitted at the end of the extension period. SPR's need not exceed 2 typewritten pages in length and we request that you use the following format:

- 1) Principal Investigator(s), and date of SPR. Note: Fellows must copy their graduate advisor and the research coordinator at the host reserve.
- 2) Address of P.I.(s). Include additional updated contact information if applicable.
- 3) NOAA Award Number.
- 4) Research Project Title.
- 5) NERR site.
- 6) Starting and ending dates of reporting period. (e.g. June 1, 2009 - November 30, 2009)
- 7) Statement of whether or not the project is meeting its milestone schedule and brief description of research activities. Please include whether any alterations to the procedures or focus of research as described in the funded proposal have occurred. If the milestone schedule is not being met and/or if significant changes to the originally funded research procedures or focus have occurred, a brief explanation is required.
- 8) A description of the ecological monitoring/research program developed with reserve staff and how it is being implemented.
- 9) List of manuscripts published or in review during this six month period that resulted from or deal with this fellowship. Include author, title, date, journal/thesis/dissertation, etc. Include copies of any articles published.
- 10) List presentations or seminars given this six month period that resulted from or dealt with this fellowship.
- 11) Other notable events, significant research accomplishments, etc. concerning this fellowship.

Please Note: Any subject or communications other than those given above (i.e. requests for extensions of research period) should not be included as part of the SPR. The purpose of the SPR is to inform ERD and the reserve about the progress of the proposed research and the presentations, publications and/or significant benchmarks that were completed during each six month period.

GUIDELINES FOR PREPARING FINAL REPORTS

National Estuarine Research Reserve
Graduate Research Fellowships

Final reports are required for all research funded through grants and cooperative agreements from NOAA's Estuarine Reserves Division (ERD). The purpose of the final report is to describe the activities and summarize the results of the project funded during the award period. Reports must be submitted through <https://grantsonline.rdc.noaa.gov> as well as an electronic version via email (pdf or word document), or CD to the address listed below. The final report is due 90 days after the expiration of the award. These reports should be submitted to Alison Krepp (Alison.Krepp@noaa.gov); NOAA's Estuarine Reserves Division; SSMC4, N/ORM5; 1305 East-West Highway; Silver Spring, MD 20910. A final copy of the thesis or dissertation is acceptable as a final report. Final reports should include the following:

Title page: The title of the project should be followed by the name(s) and address(es) of the investigator(s)/author(s), the date (month and year) of submission, the name of the site(s) (National Estuarine Research Reserve) where the work was conducted, and the grant number. The title may be other than was given to the project upon application for funding, as long as it accurately describes the project.

Table of contents: The table of contents should list all the sections and sub-sections as they appear in the text, with the corresponding page numbers. Lists of figures and tables should also be provided.

Abstract and key words: A one paragraph abstract, of no more than 200 words, should be included on a separate page. The abstract should summarize the project, including the problem, the methods, the results, and any conclusions, particularly as they apply to reserve management. The author(s) should bear in mind that the abstract may be printed in the ERD research synthesis document for National Estuarine Research Reserves. At the bottom of the abstract page a list of three to ten key words should be given. These key words will be used in the index of the appropriate synthesis document.

Text: The text should be divided into Introduction, Materials and Methods, Results, Discussion, Literature Cited, and Acknowledgment sections. Sub-sections may be used as needed. Technical terms, acronyms and abbreviations should be explained in full when first presented. Scientific species names should be given in full when first mentioned and underlined or italicized. All measurements should be expressed in SI

units, as defined in Standard 1000, SI Units and Recommendations for the Use of their Multiples and Certain Other Units, available through the American National Standard Institute, 1430 Broadway, New York, NY 10018. The report should give a more complete and thorough presentation of the work than one would expect in a typical peer-reviewed scientific journal. Specifically, a full description of methods, in-depth literature review, and a greater elaboration of significance of results and the importance to management of marine and coastal resources should be included. All text should be double spaced.

Literature cited: Referenced literature should be cited in the text by author and year

Figures and tables: Figures and tables should be used to clarify text and summarize data. Figures and tables should appear on separate pages (numbered in sequence with the rest of the text) immediately following the page where they are first mentioned. Each figure or table should be clearly labeled with an appropriate descriptive legend.

Appendices: Appendices should be used to present actual data and measurements made during the study. Only summaries of the data should be presented in the text. In addition, any additional materials not appropriate for inclusion in the main text, such as computer programs or models generated, should be appended to the report. Again, as much data as possible should be given.

Publication: To insure that the results of OCRM-sponsored research reach as many interested parties as possible, OCRM strongly encourages investigators to submit the results of their work to peer reviewed journals for publication. Manuscripts submitted for publication must acknowledge that the work was supported by a grant from NOAA's OCRM, and a copy of each publication must be provided to OCRM at the address given in the beginning of this document. When submitting final reports, investigators should indicate that they are submitting a manuscript to a journal.

Further information: Questions regarding submission of research reports should be directed to Alison Krepp at (301) 713-3155 extension 105 or Alison.Krepp@noaa.gov.