

NJSGC Resilience Research RFP 2014

The New Jersey Sea Grant Consortium (NJSGC) is one of 34 state Sea Grant Programs within the [National Sea Grant College Program](#). The National Program is housed within the [National Oceanic and Atmospheric Administration](#) (NOAA), Department of Commerce. Sea Grant addresses marine issues and coastal sustainability in the context of wise resource use and management. In New Jersey, we are interested in balancing economic growth with resource stewardship to sustain the state's \$80+ billion coastal economy. NJSGC fulfills its mission to promote the sustainable use of New Jersey's coastal and marine resources through relevant research and student training, educational excellence, and rapid dissemination of acquired knowledge. NJSGC is a statewide program bringing together the best talent within the region's [member colleges and universities](#) without regard to academic affiliation.

Resilient Communities

Community and hazard resilience is a topic that has received an extraordinary amount of well-deserved attention in the past decade. The devastation experienced in faraway places, like Japan, Indonesia and Haiti, as well as events closer to home such as the landfall of Hurricanes Katrina and Ike along the Gulf Coast, and the Deepwater Horizon oil spill have ushered in a new era in American history in which the term "resilience," has become an important part of the American conversation. Recent devastating events, such as the November 2009 "Friday the 13th" Nor'easter, Hurricane Irene in 2011, and, of course, Superstorm Sandy in October 2012 as well as more day-to-day phenomena such as increased local tidal flooding, have highlighted the relevance of coastal hazards and coastal hazard resiliency to the State of New Jersey.

Resilience is determined by the degree to which a community is capable of organizing itself to increase its capacity for learning from past economic, natural or technological disasters. More locally, resilience refers to a community's ability to understand, plan for, and respond to a given hazard or set of hazards, whether they are natural or man-made. In coastal communities, the concept of hazard resilience is of particular importance due to the number and assortment of hazards unique to the coastal zone and their frequent significant impacts on the local economy. The devastation caused by Superstorm Sandy only reinforced what coastal scientists have known for quite some time – choosing to live, work, and recreate in the coastal zone is accompanied by numerous risks that must be balanced against the economic and social benefits. One of NJSGC's overall goals in its strategic plan is to ensure that New Jersey's coastal communities, including residents, business owners, visitors, and others understand these risks and are prepared to take the appropriate measures to reduce their vulnerability and respond quickly and effectively to events as they arise. [NJSGC's Strategic Plan for 2014-17](#) aligns with the [National Program's Strategic Plan](#) and in turn supports and complements NOAA's Strategic Plan with its vision of "Healthy ecosystems, communities and economies that are resilient in the face of change."

The Consortium will achieve this by capitalizing on its existing infrastructure and strengths in the areas of research, education and outreach to provide information and tools designed to assist citizens, businesses and decision-makers to plan for hazardous events and optimize the ability of their communities to adapt, respond and rebuild. NJSGC supports cutting-edge research in the areas of marine-related energy sources, climate change, coastal processes, energy efficiency, hazards, stormwater management, coastal hazards and coastal hazards messaging, ocean planning, and tourism. The NJSGC Extension Program will engage New Jersey's diverse and ever-growing coastal population to assist them in applying the best-available scientific knowledge to address coastal resiliency. Ultimately, NJSGC will bring its unique research and engagement capabilities to support the development of resilient coastal communities that sustain diverse and vibrant economies, effectively adapt and respond to and mitigate natural and technological hazards and function within the limits of their ecosystems. Resilient coastal communities will be adapted to the impacts of hazards and climate change and as a result, Communities will be resilient and experience minimum disruption to life and economy following hazard events. In concert with the National Strategic Plan, NJSGC will increase the number of communities that implemented hazard resiliency practices to prepare for, respond to or minimize coastal hazardous events.

Call for Proposals

For this rapid response funding opportunity, NJSGC seeks to support one two-year social science research project in the area of coastal resiliency. Award level is for \$50,000 Sea Grant funding (\$25,000 per year) with requisite 50% nonfederal match totaling at least \$25,000. Approved institutional indirect costs are allowed as part of the \$50,000 request. Funding for the new project may begin as early as 1 October 2014. Resource allocation decisions are made annually, dependent on the availability of federal funds.

Through this RFP, NJSGC will fund research to support the development of resilient coastal communities that sustain diverse and vibrant economies, effectively respond to and mitigate natural and technological hazards and function within the limits of their ecosystem. Please see [NJSGC's Strategic Plan for 2014-17](#) and the [National Program's Strategic Plan](#) which concentrates its research priorities in three (3) Focus Areas: Healthy Coastal Ecosystems, Sustainable Fisheries and Aquaculture, and Resilient Communities and Economies for more details on resiliency. Also, please see [NJSGC 2014-16 Omnibus RFP](#) for research relevancy criteria, in particular those criteria under Resilient Communities and Economies that may apply to resilient coastal communities.

More specifically, NJSGC seeks to support competitive research to develop more resilient coastal communities in marine-related energy sources and efficiency, wise use of water resources, climate change adaptation, coastal processes studies, resilience from natural hazards, technology development, and resilient coastal businesses and industries, including fisheries and tourism. The research team must work with a coastal

community or community of practice that result in the implementation of hazard resiliency practices to prepare for or respond to or minimize coastal hazardous events.

Because NJSGC supports scientific excellence integrated into relevant coastal issues or socio-economic impacts, applications of research results through the [NJSGC Extension Program](#) are important considerations in funding. Workforce development through the inclusion of graduate or undergraduate students is a highly recommended component for this funding opportunity.

Submission Package

Proposal must include the following elements.

Please submit proposal (Sections A-J) as a single PDF document.

A. Full Proposal Cover Page (<http://www.njseagrant.org/research/forms>)

B. Sea Grant Project Summary Page (<http://www.njseagrant.org/research/forms>)

C. Project Narrative – use standard formatting (8.5 x 11 paper, 1” margins, at least 11 pt font in Times New Roman) not to exceed five (5) pages including figures and appendices.

1. Introduction / Statement of Problem
2. Rationale / Project Goals and Objectives
Include the relevance of the project to New Jersey and who the actual or potential users are and how they are involved or will benefit
3. Methodology / Research Plan / Timeline
Include partners (community, state, federal, or private organizations) involved in the proposal and their level of participation.
4. Expected Outcomes / Goals / Evaluation
Performance Measure: Number of communities that implemented hazard resiliency practices to prepare for, respond to or minimize coastal hazardous events.

D. Extension Goals, Student Support and Data Management – use standard formatting (8.5 x 11 paper, 1” margins, at least 11 pt Times New Roman font) not to exceed one (1) page. Include:

1. Statement of Extension Goals. You are encouraged to meet with and jointly prepare this section with [NJSGC Extension personnel](#) and include them in your proposed work.
2. Required Student Support – Describe the extent of graduate or undergraduate student support and involvement in proposed research.
3. Data Management – New NOAA regulations require a data management plan to make data available within two years of award completion. Describe your data management plan.

E. Literature Citation

F. Letter(s) of Support

G. *Curriculum Vitae* – not to exceed two pages per investigator

H. Current and Pending Support (<http://www.njseagrant.org/research/forms>)

I. Budget Page (Note matching funds requirements below.)

1. Funding Period is 1 October 2014 – 30 September 2016
2. Supply budget pages for year 1, year 2, and combined years

J. Budget Justification (Provide for each year)

K. NEPA Form **Please submit as separate PDF.**

PROPOSALS DUE BY 15 SEPTEMBER 2014

Matching Funds and Budget Aspects

Matching funds are required for this program. Sea Grant investigators must include a non-federal contribution of at least \$1 for every \$2 of Federal support requested. Potential matching non-federal support includes:

- Salaries, wages, and benefits of those working on the project
- Expendable supplies equipment and ship time
- Indirect costs or in-kind services provided
- Contributions such as private, local, or state contracts and special project funds

Total federal (Sea Grant) budget amount must be distributed equally over the two years (\$25,000 per year).

Proposal Evaluation and Notification

Proposals will be evaluated, ranked and reviewed by a Technical Review Panel (TRP) consisting of social science researchers and experts outside of New Jersey.

The criteria of the TRP are:

- Scientific Merit and Innovativeness (40 pts)
- Responsiveness to NJSGC Resilience Research RFP Priorities (20 pts)
- Expected Benefits (20 pts)
- Extension Goals and Student Involvement (10 pts)

- Professional Qualifications of the Investigators (5 pts)
- Budget (5 pts)

New Jersey Sea Grant Consortium strives to fund the best science relevant to New Jersey and the region.

Applicants will be notified by 1 October 2014. Based on panel evaluations, selected investigator may be asked to modify objectives, work plans or budgets.

Proposals must be submitted electronically to Dr. Peter Rowe, Director of Research and Extension, 732-872-1300 x 31, prowe@njseagrant.org

Please submit proposal (Sections A-J) as a single PDF and NEPA form (K) as a PDF.

For questions on general submission, collaborations, research priorities, evaluation criteria, extension, student involvement, data management or budget please contact Dr. Peter Rowe, Director of Research and Extension, 732-872-1300 x 31, prowe@njseagrant.org

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