CENTER FOR OCEAN SOLUTIONS

Center for Ocean Solutions Early Career Fellowship Program

POSITION: The Center for Ocean Solutions ("COS") seeks up to five early career natural, social, and physical science fellows to join COS researchers and experts working on interdisciplinary projects focused on elevating the impact of the social, physical, and natural sciences on ocean policy. Consistent with the mission of COS, we seek qualified individuals interested in both advancing scholarly frontiers and addressing real-world challenges of sustainability in coastal and ocean environments.

- We seek creative individuals with expertise in a relevant **social science discipline (e.g., geography, anthropology, economics, sociology, political science, planning)** and the ability to work effectively in interdisciplinary teams on cross-cutting issues. The fellow/s will strengthen the Center's focus on the social dimensions of ocean environments, with particular areas of expertise that might include: ecosystem services; social-ecological/coupled human-natural systems; sustainable fisheries; climate change impacts and adaptation; conservation planning; or related areas.
- We seek creative individuals with expertise in **marine physical science (e.g., biological, physical, or chemical oceanography, biogeochemistry)** and the ability to work effectively in interdisciplinary teams on cross-cutting issues. The fellow/s will advance our existing work on understanding ocean acidification (OA) and hypoxia, and their biological impacts on nearshore kelp forest ecosystems using the state-of-the-art Kelp Forest Array (KFA) and the shallow water Free Ocean Carbon Enrichment (swFOCE) platform, a cabled undersea research laboratory located off Hopkins Marine Station. The fellow/s will build on existing infrastructure and develop new, practical methods for assessing nearshore variability in ocean pH, total carbon content, and dissolved oxygen. These studies are aimed at understanding how the physical environment affects the manifestation of OA and hypoxia and discerning how climate change impacts nearshore ecosystems. The fellow/s will also work with other COS staff, marine managers, and policymakers to translate analytic results from the KFA and swFOCE platform (and related science) to inform and enhance ocean management.
- We seek creative individuals with expertise in **marine natural science (e.g., biology, ecology, population biology, genomics)** and the ability to work effectively in interdisciplinary teams on cross-cutting issues. The fellow/s will build on and help forge new approaches and solutions to the following challenges, among others: sustaining the supply of ecosystem goods and services to coastal societies without compromising the fundamental structure and functioning of the biophysical ecosystem; improving governance of marine resources to ensure long-term sustainability of marine ecosystem services; characterizing cumulative impacts and developing a scientifically valid way of identifying and prioritizing stressors that need to be reduced. The fellow/s will also create practical ways to reduce cumulative impacts, apply emerging insights

from theory and practice in social-ecological/coupled human-natural systems research to improve the sustainability of marine ecosystems, and provide marine managers with the guidance they need to develop appropriate ecosystem thresholds and performance standards for management of multiple human activities and indicators for tracking whether the thresholds and standards are being met in a given area.

- We seek creative individuals with expertise in **ocean and coastal law and policy** and the ability to work effectively in interdisciplinary teams on cross-cutting issues. The fellow/s should possess experience in any of the following areas: international ocean law frameworks; climate change adaptation; integration of scientific standards and knowledge into existing regulatory frameworks and emerging policy; adaptive management; cumulative and environmental impact analysis. The fellow/s will work with COS staff, marine managers and policymakers to advance legal and policy practice to address innovations in science and technology.

The COS Early Career Fellowship program is designed to draw on and enhance the academic and professional skills of early career professionals and researchers by placing them in interdisciplinary collaborations focused on identifying, developing, and implementing enduring solutions to the greatest challenges facing coastal and ocean environments. COS is committed to providing each fellow with appropriate training and mentorship, including access to special leadership and communications workshops, courses, and one-on-one training provided through The Stanford Woods Institute for the Environment. In addition, at least one advisor from COS's collaborating institutions will be responsible for providing ongoing advice and oversight for each fellow. The decision of who will serve as the primary advisor for each fellow will depend on the fellow's disciplinary strengths as well as the projects in which the fellow is involved.

The initial term of the fellowship is for 12 months, renewable up to a three-year term contingent on performance and fit. Each fellow will receive an initial annual stipend of $63,000, with a graduated annual salary schedule (Year 2=$66,000; Year 3=$70,000). Fellows will also receive health insurance coverage, a relocation allowance, and limited support for travel and supplies. The application period will remain open until the fellow positions are filled, and starting date is negotiable.

QUALIFICATIONS: Applicants must have received a terminal graduate degree (PhD, JD and/or MBA) in the last five years and be fluent English speakers and writers. Applicants must demonstrate a strong interest and some experience in ocean and coastal issues in their past work. Successful candidates will have demonstrated: (1) strong research skills (basic and applied); (2) substantial course work and/or gained experience in ocean or coastal science, law, or policy; (3) a growing record of publications and scholarly activities of high impact in their field; and (4) a commitment to connecting research to real-world issues.

ABOUT THE CENTER: COS is a collaboration among Stanford University (through The Stanford Woods Institute for the Environment and Hopkins Marine Station), the Monterey Bay Aquarium, and the Monterey Bay Aquarium Research Institute to develop practical and sustainable strategies that address the major environmental and economic challenges facing our ocean by bringing leading experts in marine science and policy together with decision makers. The fellows will be based at COS's Monterey or Stanford main campus office (project disciplinary needs will inform decision on office location).

APPLICATION: Applicants should submit:

- A letter of interest;
- Curriculum vitae;
- Two letters of recommendation, one from academic advisor and one from someone who is familiar with applicant's professional abilities;
- Copies of undergraduate and graduate transcripts (official copies will be required for finalists);
- A personal education and career goal statement emphasizing applicant's interest in, expected contributions to and expectations from the fellowship, including identification of COS initiatives and project(s) which most interest him/her - COS initiatives include: (1) ecosystem health; (2) land-sea interactions; and (3) climate change adaptation (for more information on our initiatives, see our website: www.centerforoceansolutions.org). Statements should include a requested start date and are not to exceed 1500 words.

Applications and inquiries should be submitted electronically to the Center for Ocean Solutions at: earlycareerfellowship@centerforoceansolutions.org.

The Center for Ocean Solutions will review and rank applications on a rolling basis, beginning September 1, 2012. The Fellowship application process will remain open until the positions are filled. COS will then interview application finalists by phone or in person. For additional information, please visit: www.centerforoceansolutions.org.