

## NSERC Post-Doctoral Fellowship in Social-Ecological Modeling of Forage Fish Systems

### About the Opportunity:

Simon Fraser University, The Hakai Network for Coastal People, Ecosystems and Management, and the Ocean Tipping Points project invite applications for a post-doctoral fellowship in applied fisheries ecology, with focused research on modeling the social-ecological interactions between an ecologically and culturally important forage fish, Pacific herring, and coastal communities in British Columbia. Together, we seek applicants interested in contributing to an interdisciplinary research group composed of marine ecologists, fisheries scientists, oceanographers, geneticists, policy analysts and archaeologists. The post doc will play an important cross-cutting role in this group, integrating the ecological, cultural and economic implications of herring and working directly with our community partners. The successful Post-Doctoral Scholar will be appointed for two years with funding from a National Science and Engineering Research Council of Canada (NSERC) Strategic Project Grant. They will be based at The Hakai Network at Simon Fraser University in Burnaby, British Columbia, Canada. Field research will be based at the Hakai Beach Institute on Calvert Island, and First Nations communities on Central Coast and Haida Gwaii regions of British Columbia. This research will also involve an international collaboration with the Ocean Tipping Points Project (<http://www.oceantippingpoints.org/>). The salary for the position will be commensurate with experience (\$40 -50,000) with grant-supported travel and research funds (\$10,000).

### About the Competition:

Applicants must hold a Ph.D. in marine ecology, fisheries science or a relevant field at the time of appointment, and should have a demonstrated track record of high quality research. The successful candidate will work closely with Drs. Anne Salomon and Margot Hessing-Lewis with the Coastal Marine Ecology and Conservation (CMEC) lab, the Hakai Beach Institute, The Herring School, and Drs. Carrie Kappel, Phil Levin and Jameal Samhoury from The Ocean Tipping Points project, as well as our Coastal First Nations partners (Haida Fisheries and the Heiltsuk Integrated Resource Management Department). A strong quantitative background with demonstrated use of modeling skills in fisheries and/or ecological disciplines is preferred. Knowledge of loop/network analysis and decision-making modeling tools will be considered a strong asset. In addition, experience working with coastal communities, commitment to collaboration across disciplines, and a working knowledge of qualitative research techniques would be greatly valued. A theoretical understanding of SES (Social-Ecological Systems) thinking and its practical application should be demonstrated.

Applicants should send a cover letter, short statement of research interests, curriculum vitae, reprints of relevant publications, and three letters of reference to [margoth@sfu.ca](mailto:margoth@sfu.ca) by January 31<sup>st</sup> 2014. We will continue to receive applications after this date until a successful candidate is found, with the successful candidate starting this spring.

### About Us:

The Hakai Network is a vibrant, multi-disciplinary group of researchers who are committed to collaborating with BC's Coastal First Nations to conduct policy relevant conservation science ([www.sfu.ca/hakai.html](http://www.sfu.ca/hakai.html), <http://hakai.org/hakai-network/>). The Herring School is an interdisciplinary research group housed within the Hakai Network at SFU, and includes researchers at UBC, U of T and UW with whom the post doc will work closely through a collaborative NSERC Strategic Projects Grant (<http://www.sfu.ca/hakai/current-research-programs/herring-school.html>).

The post doc will have the opportunity to conduct research and spend time at the Hakai Beach Institute's research station (<http://hbicalvert.wordpress.com/>), located on Calvert Island, in British Columbia's Central Coast. The Hakai Beach Institute is part of the Hakai Program, a core program of the Tula Foundation (<http://hakai.org/>)

The Ocean Tipping Points project is a collaboration between natural and social scientists at UC Santa Barbara, Stanford University, NOAA, Cal Poly San Luis Obispo, and Environmental Defense Fund aimed at advancing the science of marine ecosystem shifts and developing tools and approaches to embed that science in ocean management. Ocean Tipping Point researchers are international collaborators with the Herring School. The post doc will work with this team to better understand the non-linear dynamics in herring fisheries harvests and ecosystem dynamics (<http://oceantippingpoints.org/>).

SFU's Coastal Marine Ecology and Conservation lab aims to advance our understanding of how humans alter the productivity, biodiversity and resilience of coastal marine food webs with the ultimate goal of informing ecosystem approaches to marine conservation (<http://www.rem.sfu.ca/research/marine-ecology/>).

For more information about this Post-Doctoral Fellowship, please contact Dr. Margot Helsing-Lewis ([margoth@sfu.ca](mailto:margoth@sfu.ca)).