

From: Krista Nichols - NOAA Federal
Subject: postdoc: salmon genetic stock identification

POSTDOCTORAL FELLOWSHIP OPPORTUNITY

NOAA Fisheries, Northwest Fisheries Science Center, Seattle, WA, USA

TITLE: Genetic mixture analysis in ocean fisheries

The Conservation Biology Division at the Northwest Fisheries Science Center in Seattle seeks a National Research Council (NRC) postdoctoral research associate in genetic mixture analysis and genomics. The Genetics and Evolution Program is the oldest fishery genetics laboratory in the county and played a pivotal role in the development of genetic mixture analysis applied to fishery science and management (modeled stock composition and individual assignment). Currently, researchers have implemented next generation sequencing methods in a wide range of evolutionary and ecological studies. The goals for the NRC postdoctoral fellow are both technical in further developing genotyping-by-sequencing methods and building the reference baseline datasets, as well as theoretical and descriptive in the analysis and interpretation of contemporary and historical Chinook salmon samples from ocean fisheries (including a 40-year time series ideally suited to climate and ocean ecology studies). The research will involve building genomic DNA libraries, bioinformatics processing of sequence data, and analyze stock composition in ocean fisheries, stock-specific migration, and association with ocean conditions. A theoretical population genetics background with extensive computational/bioinformatic experience is essential along with experience in computing languages and programs that facilitate population genomic and seascape genomic studies.

The NRC Research Associateship Program is administered by the National Academies of Sciences, Engineering and Medicine. The initial funding period for the award is one year, renewable for up to three years pending funding. NRC research associates receive a competitive stipend, health insurance and travel allowance. Details on eligibility, terms, and application for the award may be found at <http://bit.ly/2hpWj5g>, research opportunity number 26.03.39.C0079. The online application is now open, with applications due 1 November 2017. Applications include a research proposal, which will be developed by the applicant in discussing the project with the research advisers. Applications and supporting documents are to be submitted by the deadline to the NRC WebRAP system (<https://nrc58.nas.edu/nrcwebrap/rap/login/login.asp>). For more information, please contact prospective co-advisers Dr. Paul Moran (paul.moran@noaa.gov) or Dr. Krista Nichols (krista.nichols@noaa.gov).