

Department	Marine Mammal Institute (MMI)
Job Title	Postdoctoral scholar – whale genomics and epigenomics
Appointment Type	Postdoctoral scholar
Job Location	Hatfield Marine Science Center, Newport, Oregon 97365
Position Appointment Percent	100%
Appointment Basis	12 month
Pay Method	Stipend
Recommended Full-Time Salary Range	The minimum stipend for a Postdoctoral Scholar with no prior postdoctoral experience is \$4,480/month (negotiable) with annual increments for each year of experience following NIH guidelines, http://gradschool.oregonstate.edu/postdocs/stipends-and-benefits
Position Summary	<p>The Marine Mammal Institute invites applications for a full-time (1.00 FTE), 12-month, fixed-term Postdoctoral Scholar position. Reappointment is subject to funding and at the discretion of the Principal Investigator. The successful candidate will contribute to ongoing projects investigating genomic diversity and population dynamics of endangered whales and dolphins. This will require application of bioinformatic pipelines and statistical analyses to next-generation sequencing for genomics and to a custom methylation array for epigenomics. The long-term objective is to integrate genomic diversity, kinship and age structure into population dynamic models for the Cook Inlet beluga whales and the New Zealand endemic Māui dolphins.</p> <p>The Scholar is expected to engage in innovative research, data collection, integration and analysis, including the development of novel analytical methods. The Scholar is also expected to keep organized research records, present his/her data at academic conferences and prepare manuscripts for publication in peer-reviewed journals.</p> <p>The position is located at Oregon State University's Hatfield Marine Science Center in Newport, Oregon where the Scholar will work with Scott Baker in the Cetacean Conservation and Genomic Laboratory and, remotely, with collaborators, Paul Wade (NOAA) and Rochelle Constantine (University of Auckland, New Zealand).</p> <p>For further information please contact Scott Baker by email, using the subject 'Whale genomics postdoc information' email: scott.baker@oregonstate.edu</p>

Position Duties	<p>60% Scholarly Research</p> <ul style="list-style-type: none">- Develop a pipeline for the filtering and parsing of reads from next-generation sequencing of individual whales and dolphins, using ddRADSeq or similar protocols, for kinship-based estimates of abundance and effective population size.- Work with the PI, collaborators and commercial providers to refine models for epigenetic estimates of age using results of a custom methylation array.- Use the abundance estimates, kinship relationships and estimated ages to improve the modeling of population dynamics of Cook Inlet belugas and New Zealand endemic Māui dolphins. <p>25% Publication and Presentation</p> <ul style="list-style-type: none">- Synthesize data and present research findings through technical reports and publications in high impact, peer-reviewed scientific journals.- Attend and present findings at relevant scientific meetings or conferences (funding dependent) <p>10% Mentoring, Grant Development and Outreach</p> <ul style="list-style-type: none">- Provide general support and collaboration towards scholarly advancement in the Oregon State University Marine Mammal Institute.- Develop or assist in writing grants for continued research into genomics and epigenomics of endangered cetaceans- Communicate with the local community and stakeholders in regards to progress of the research and the implications for management of Cook Inlet beluga whale and Māui dolphins. <p>5% Supervision of graduate students or undergraduate interns, including planning, assigning, and approving work.</p>
Minimum/Required Qualifications	<p>A PhD in biological sciences (genetics, ecology or evolution) with an emphasis in molecular ecology, genomics, statistics, bioinformatics or population modeling. The PhD must have been awarded within the last five years.</p> <p>Demonstrated publication record in peer-reviewed journals.</p> <p>Willingness to work collaboratively with the PI and other investigators involved in the technical development of methods and integration of analyses.</p> <p>Effective communication skills and a professional demeanor.</p>
Preferred (Special) Qualifications	<p>Experience with programming in R, Python or other languages used in statistical analyses or bioinformatics</p> <p>Experience with Unix/Linux and management of large datasets typical of next-generation sequencing, see http://cgrb.oregonstate.edu/biocomputing</p>

Working Conditions / Work Schedule	<p>Willingness to communicate with management authorities (e.g., NOAA, New Zealand Department of Conservation) and stakeholders on biological implications of the research.</p> <p>A demonstrable commitment to promoting and enhancing diversity.</p> <p>The scholar will have access to shared bench space for laboratory analyses, local facilities for conventional sequencing and genotyping, core facilities for next-generation sequencing and computer cluster through OSU's Center for Quantitative Life Sciences, and a shared office, with a personal desk and computer.</p> <p>Temporary housing is available through the Hatfield Marine Science Center, http://hmsc.oregonstate.edu/facilities/housing-0</p>
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Posting Detail Information

Posting Number	
Number of Vacancies	1
Anticipated Appointment Begin Date	15 March 2022 (negotiable)
Anticipated Appointment End Date	14 March 2023
Posting Date	18 January 2022
Full Consideration Date	15 February 2022
Closing Date	Until a suitable candidate is appointed
Indicate how you intend to recruit for this search	Competitive / External - open to ALL qualified applicants
Instructions to Applicants	<p>When applying you will be required to attach the following two electronic documents with identifying filenames (e.g., 'lastname_CV' and 'lastname_cover'):</p> <ol style="list-style-type: none">1) A resume/CV and the names of at least three professional referees, their e-mail addresses and telephone numbers. The referees must be willing to provide a written letter of reference and to speak by phone in regards to the candidate's qualifications.2) A cover letter describing how your qualifications and experience have prepared you for this position.

For posting on OSU HR, 18 January 2022

Submit resume/CV and cover letter to Scott Baker by email, using the subject '**Genomic postdoc application**'
email: scott.baker@oregonstate.edu

OSU commits to inclusive excellence by advancing equity and diversity in all that we do. We are an Affirmative Action/Equal Opportunity employer, and particularly encourage applications from members of historically underrepresented racial/ethnic groups, women, individuals with disabilities, veterans, LGBTQ community members, and others who demonstrate the ability to help us achieve our vision of a diverse and inclusive community.