Available Postdoc Position

RUA

Position ID Number	100007
Supervisor Name	Jessica L O'Connell
Supervisor Title	Assistant Professor
Phone Number	
Supervisor Email	jessica.oconnell@utexas.edu
Lab Website	https://www.landscapemodeling.net/
Affiliated Institution	University of Texas, Austin
Contact Name	
Contact Title	
Contact Email Address	
Contact Phone Number	
Date of Best Consideration	11/12/21
Application Close Date	11/26/21
Anticipated Start Date	2/1/22
Job Website	https://www.landscapemodeling.net/uploads/8/5/1/3/8513282/postdoc_ad_20211014.pdf
Job Location	Port Aransas, TX
Is remote work possible?	No
CIP Codes	4.5 Wildlife and Wildlands Science and Management
	3.5 Geological and Earth Sciences/Geosciences
	6.12 Ecology, Evolution, Systematics, and Population Biology
Job Description	See attached
Required Qualifications	See attached
Desired Qualifications	See attached
Minimum Monthly Salary	$0
Maximum Monthly Salary	$0
Special Instructions for Applicants	
Opportunities for teaching?	Yes

Opportunities for supervision/mentoring?	Yes			
Opportunities for communitiy outreach?	Yes			
Position keywords	remote sensing	wetlands	water	landscape change

October 14, 2021

Description: The Wetland Landscape Ecology lab in the University of Texas Department of Marine Science seeks a postdoctoral researcher interested in the remote sensing of landscape-scale wetland dynamics. The successful applicant will work on multiple funded projects conducted in partnership with non-profit organizations, such as Ducks Unlimited and the Coastal Bends and Bays Estuary Program. A primary goal will be to evaluate surface water flooding and other wetland habitat characteristics in the Prairie Pothole region, a depressional wetland landscape in U.S. Great Plains. This project will develop open-source models that can serve as the basis of long-term monitoring and conservation programs by research and non-profit organizations. Other projects will likely also include coastal wetland habitat mapping through multi-sensor remote sensing data, including unmanned aerial vehicles. The latter project will involve local field work in coastal wetland environments. The position is a one-year appointment with a possible extension in later years. Start date is flexible, but the position in available to start immediately.

Location: Our lab is located at the UT Marine Science Institute (www.utmsi.utexas.edu), in Port Aransas, TX. The Marine Science Institute is situated on Mustang Island, with close proximity to sandy beaches, estuarine habitats of the Gulf of Mexico, and the city of Corpus Christi, TX. The successful applicant will also have access to the resources available at the University at Texas at Austin, such as the Texas Advanced Computing Center (www.tacc.utexas.edu).

Required qualifications: The applicant should have experience in remote sensing analyses, machine learning, and programming in an open source language, such as R. A track record of successful publications and a PhD degree received within the last 3 years are also required.

Desired additional qualifications: Experience with unmanned aerial vehicles, LiDAR, SAR and spectral reflectance data will be helpful for this position, as well as experience with Google Earth Engine, data science and/or reproducible workflows. Past experience researching wetland landscapes will also be useful. Experience with field work in wetland or coastal environments is also desired.

To apply: Please send a cover letter outlining your research interests and goals (no more than 2 pages), a curriculum vitae, and contact information for three professional references, including their name, email, phone, and address. Please include your start date availability in your cover letter. These materials should be emailed as a single pdf to Jessica O'Connell (jessica.oconnell@utexas.edu), Assistant Professor in the Department of Marine Science at the University of Texas. For more information about the work conducted in my lab, see the web page: www.landscapemodeling.net. Applicant review will begin immediately and continue until the position is filled.

The University of Texas at Austin is an equal opportunity/affirmative action employer. Women, minorities, and other underrepresented groups are strongly encouraged to apply.