From: Will Cook
Subject: PostDoc Quantitative Biodiversity Ecologist @ Duke

Forwarding for Jennifer Swenson... an exciting new postdoctoral position here at Duke!

For many more postdoctoral positions in ecology and related areas, please see https://urldefense.proofpoint.com/v2/url?u=http-3A__esa-2Decophys.org_postdoc.html&d=DwIDaQ&c=Ngd-ta5yRYsqeUsEDgxhcqsYYY1Xs5ogLxWPA_2Wlc4&r=e2OJ1azRFn8ihJzb2HxZT0AqoiqLvxfeeaTyN59ZLoI&m=0Fj5F2KWTzkBYd9KlQVqfVTog6hKMBNtY8mBUgatmRU&s=B3_8qxwSQn5l8IxX0hLpUimA8frFpqfep6I2kRnv7Fc&e=

Postdoctoral Associate - Quantitative Biodiversity Ecologist

Duke University's Nicholas School of Environment is immediately seeking a postdoctoral associate with experience in quantitative modeling of biodiversity and remote sensing. This position will analyze spatio-temporal dynamics of multiple species and biophysical variables across US NEON sites. The associate will advance generative joint-attribute Bayesian modeling of community response to climate change to predict distribution and abundance of species. Modeling will directly access NASA's online remotely sensed data storage. The researcher will be responsible for development, implementation, and support of a software application.

The candidate must have experience with the R programming language and a background in geospatial and remote sensing analysis.

The candidate should be capable of working independently and collaboratively. The researcher will be expected to prepare results for peer reviewed journals.

The position will be supervised by Drs. Jim Clark and Jennifer Swenson.

Clark Lab: https://urldefense.proofpoint.com/v2/url?u=http-3A__sites.nicholas.duke.edu_clarklab_&d=DwIDaQ&c=Ngd-ta5yRYsqeUsEDgxhcqsYYY1Xs5ogLxWPA_2Wlc4&r=e2OJ1azRFn8ihJzb2HxZT0AqoiqLvxfeeaTyN59ZLoI&m=0Fj5F2KWTzkBYd9KlQVqfVTog6hKMBNtY8mBUgatmRU&s=E-5_wyFIz8rYHYmchuhOXCEdaz3cBXvl0-PR2o6k-o0&e=
Swenson Lab: https://urldefense.proofpoint.com/v2/url?u=http-3A__swensonlab.weebly.com_&d=DwIDaQ&c=Ngd-ta5yRYsqeUsEDgxhcqsYYY1Xs5ogLxWPA_2Wlc4&r=e2OJ1azRFn8ihJzb2HxZT0AqoiqLvxfeeaTyN59ZLoI&m=0Fj5F2KWTzkBYd9KlQVqfVTog6hKMBNtY8mBUgatmRU&s=B_gJXeu_TOssJynX55cA60Bsnh9eSCRZxnVRkdvRsJs&e=

Travel to domestic conferences on an annual basis.

Basic Qualifications

Applicants should hold a PhD in ecology or similar field. Previous doctoral or postdoctoral research experience should include quantitative analysis of large datasets. Applicants should be fluent in R, and have experience programming in other languages, such as Python or JavaScript. Experience with Git/GitHub, RMarkdown, Shiny, and Jupyter Notebooks is a plus.

Preferred Qualifications

Candidates with 3+ years of experience in Bayesian modeling and/or manipulation of large remotely-sensed datasets. Familiarity with geospatial analysis and remote sensing is preferred. Familiarity with both fine spatial scale measurements (field surveys and remote sensing) and with coarse scale data (remote sensing and geospatial data) is ideal.

Time Frame

Initial appointment will be for two years, with possibility to extend to three years. Position is available immediately. Selected candidate will need to meet all hiring requirements, including a background check, prior to start date.

The Nicholas School of the Environment strives for a new paradigm that views and attempts to understand the earth and the environment, including humans, as an integrated whole. Its mission is to create knowledge and global leaders of consequence for a sustainable future. As a result, it seeks to recruit and retain a diverse workforce to maintain the excellence of the University, and to offer students varied perspectives, ways of knowing, and approaches to learning.

Duke has been named a Great College to Work For by the Chronicle of Higher Education. Surrounded by thousands of acres of undeveloped woodlands and gardens, Duke boasts one of the most beautiful campuses in the world. Duke's hometown is Durham, North Carolina, a city with vibrant research, medical and arts communities, and numerous shops, restaurants and theaters. Durham is one of three municipalities, along with Raleigh and Chapel Hill, that form the Research Triangle, a growing metropolitan area of more than one million people that provides a wide range of cultural, recreational and educational opportunities.

Candidate must be legally authorized to work in the USA. Visa sponsorship is not available.

Duke University is an Affirmative Action/Equal Opportunity Employer committed to providing employment opportunity without regard to an individual's age, color, disability, genetic information, gender, gender identity, gender expression, national origin, race, religion, sexual orientation, or veteran status.

https://urldefense.proofpoint.com/v2/url?u=https-3A__academicjobsonline.org_ajo-3Faction-3Djoblist-26id-3D9379-26send-3DGo-26.cgifields-3Dall&d=DwIDaQ&c=Ngd-ta5yRYsqeUsEDgxhcqsYYY1Xs5ogLxWPA_2Wlc4&r=e2OJ1azRFn8ihJzb2HxZT0AqoiqLvxfeeaTyN59ZLoI&m=0Fj5F2KWTzkBYd9KlQVqfVTog6hKMBNtY8mBUgatmRU&s=kodSgUem8lIBETxZ7Czq3NvAyY6qXW-8NCoUGZUDhek&e=