Title: Postdoctoral Fellow in Remote Sensing of Coral Reefs (Full-time; Temporary)
Closing Date: Continuous - open until filled (application review begins on July 1, 2021)
Salary Information: Stipends commensurate with experience (minimum $62,000 annually)

The Department of Natural Resources and Environmental Management at the University of Hawai‘i at Mānoa seeks a recent PhD interested in working on the remote sensing of coral reef benthic communities in the Marine National Monuments of the Pacific in collaboration with the US Fish and Wildlife Service (USFWS) and National Oceanic and Atmospheric Administration (NOAA). The Postdoctoral fellow will develop an algorithm to standardize high-resolution commercial satellite data by correcting for atmospheric, sun-glint, and water depth effects. The fellow will also develop a classification method to derive benthic maps from the standardized images and analyze the derived maps for long-term trends in benthic cover changes.

The fellow is expected to present the results of the projects at national/international conferences, and publish them in peer-reviewed journals. The successful candidate will have the opportunity to build research capacities in remote sensing of coastal ecosystems and coral reef conservation.

The position is expected to begin in August 2021 for one year and may be extended for additional years depending upon the performance and availability of funds.

Minimum Qualifications:

• Ph.D. with a background in coastal remote sensing
• Computer programming skills (e.g., R, Python, C, C++, Fortran, etc.)
• Experience working with a Unix/Linux environment
• Experience in conducting field work involving remote sensing
• Excellent oral/written communication skills

Desirable Qualifications:

• Experience in processing a wide variety of datasets
• Experience in creating a stand-alone software package
• Experience in handling large datasets
• Familiarity with various image data format
• Experiences in developing research proposals

To apply, please submit electronically a statement of research interest including how you meet the minimum and/or desirable qualifications, curriculum vitae, and the names and contact information (including email address) of three professional references to the contact below.

For further information of the position, please contact Dr. Tomoaki Miura (tomoakim@hawaii.edu; +1-808-956-7333).