Dr. Jamon Van Den Hoek (www.conflict-ecology.org) in the Geography and Geospatial Sciences Program in the College of Earth, Ocean, and Atmospheric Sciences at Oregon State University seeks a Postdoctoral Scholar for a full-time, 12-month position with benefits, beginning as early as April 2024.

The Postdoctoral Scholar will work on an interdisciplinary project funded by the NASA Land-Cover/Land-Use Change Program that is focused on mapping the effects of armed conflict and forced displacement on regional landscape dynamics. Analysis of multi-sensor satellite image time series is the focal point of the project, but we also seek to deliver methodological innovations in deep learning of inter-annual land cover dynamics, mapping spatially-explicit people-pixel relationships, and integrating interview and satellite-derived data.

This position offers an excellent opportunity to pursue independent and mentored research, strengthen analytical and writing skills, and lead and co-author papers. Applicants with experience at the intersection of Earth observation and land cover classification and change mapping in humanitarian, conflict-affected, or displacement contexts are especially encouraged to apply.

Required qualifications for this position include:

- A Ph.D. in Geography or a related field completed or expected by position start date
- Expertise in land cover change mapping through time series analysis
- Excellent writing skills with a record of peer-reviewed scholarship
- Demonstrated ability to work independently and collaboratively within an interdisciplinary research team
- Proficiency with Python (ee, geemap) and JavaScript Earth Engine APIs
- Fluency in written and spoken English

Desirable qualifications include:

- Experience using satellite data to research food security, forced displacement, or armed conflict
- Experience with open (Sentinel 1/2, Landsat) and high resolution commercial satellite data
- Experience with using machine learning (PyTorch, TensorFlow) for satellite data analysis
- Experience with large volume geospatial data analysis and management (GeoPandas, DuckDB)

To apply, please email jamon.vandenhoek@oregonstate.edu (subject line: “NASA Project Postdoctoral Application”) with the following materials in a single PDF:

- 1-2 page cover letter describing qualifications and specific interests related to the position
- Curriculum vitae
- Contact information for three professional references
- Two representative published manuscripts authored or co-authored by the applicant

For full consideration, applications must be received by Friday, 12 January 2024. Screening will begin immediately. Additional supporting documentation may be requested from finalists for this position.