



POSTDOCTORAL RESEARCH ASSOCIATE

A full-time postdoctoral research associate position is available in the Ecosynth Project, funded by a three-year grant from NSF's Advances in Bioinformatics (ABI) Program and led by Professors Erle Ellis and Marc Olano at the University of Maryland Baltimore County.

The Ecosynth project develops advanced tools for mapping, measuring, and visualizing vegetation in 3-dimensions (3D) using off-the-shelf digital cameras from the ground and on low-altitude hobbyist aircraft, coupled with open source and new computer vision algorithms. High resolution 3D scanning and spectral imaging are transforming ecological science, forest inventory, carbon monitoring and biodiversity assessment. Ecosynth makes these advances accessible broadly to ecologists and citizen scientists on demand by means of low-cost portable 3D observing and visualization systems built on publicly available hardware and open-source software.

Project web site: <http://ecosynth.org>

The successful candidate will work closely with Dr.'s Ellis and Olano to advance project research together with our interdisciplinary team of environmental and computer scientists. Proficiency with computer vision (especially sensor calibration, feature detection, object alignment, and structure from motion), real-time interactive geospatial data analytics and other quantitative computing and visualization systems is essential; experience with woodland ecology research a plus.

Starting date is September 1, 2013. Confirmation of Doctoral Degree in Computer Science or related discipline required at time of appointment. Review of applications will begin August 1, 2013 and will continue until position is filled. Support includes full benefits and is for two years with possibility of extension.

Please apply **by email** with cover letter stating interest and relevant skills, CV, and list of three references to:

Prof. Erle C. Ellis <ece@umbc.edu>
Dept. of Geography & Environmental Systems
University of Maryland Baltimore County, 1000 Hilltop Circle, Baltimore, MD 21250
<http://ges.umbc.edu/ellis>

Tel: (410) 455-2002 **Fax:** (410) 455-1056

UMBC is an Affirmative Action/Equal Opportunity Employer; minorities, women, and individuals with disabilities, are encouraged to apply.