The National Socio-Environmental Synthesis Center (SESYNC) invites applications for an exciting new Postdoctoral Fellowship that is scheduled to start in August 2017. The opportunity is open to applicants who have completed their PhD in a relevant field within the last two years.

**SESYNC-Microsoft Postdoctoral Fellowship: Big Data and Socio-Environmental Sustainability**

Microsoft has developed two novel environmental datasets and applicants are expected to propose ideas for a data synthesis or modeling project that addresses an important environmental question that makes use of one or more of these assets:

**Geospatial Socio-Environmental Research**

New land cover data at high spatial and temporal resolution offers the potential to improve understanding of landscape processes and to empower local planners and managers in identifying risks and prioritizing responses. In collaboration with Microsoft, the Chesapeake Conservancy and the Washington State Department of Fish and Wildlife have pioneered the production of high accuracy, high-resolution (1 meter) land cover datasets for the Chesapeake Bay and Puget Sound watersheds.

Applications are invited for a project that leverages these high-resolution land cover data to address one or more important socio-environmental research questions.

**Project Premonition and Socio-Environmental Systems**

Working with academic partners, Microsoft’s Project Premonition designed mosquito traps with smart cells that can identify mosquito species based on wing movements and then capture those of interest along with key environmental data including time, temperature and light levels ([www.microsoft.com/en-us/research/project/project-premonition](http://www.microsoft.com/en-us/research/project/project-premonition)).

Applications are invited for a project that leverages these data. Particular areas of interest include: exploration of host diversity or population dynamics as they relate to land cover and microclimates, human disturbance gradients, and other factors.

Please submit a CV and detailed cover letter by May 18. Application instructions can be found at [sesync.us/bigdata](http://sesync.us/bigdata).