Job Title: Postdoctoral scientist: Anthropogenic carbon emissions

This postdoctoral position will perform research on quantification and analysis of fossil fuel CO_2 emissions at fine space/time scales in the North American domain. Working with the "Vulcan" emissions data product (vulcan.project.asu.edu), the postdoctoral scientist will expand, improve and extend the emissions data product and analyze the emissions in conjunction with North American $14CO_2$ monitoring and atmospheric transport modeling. The position requires a knowledge combination of carbon biogeochemistry, data mining, and numerical modeling. The position will require collaboration with colleagues at the National Oceanic and Atmospheric Administration.

Candidates must have received a PhD in the geosciences or a field related to position (eg. Ecology, GIS/Geography, Civil Engineering) from an accredited college or university. The applicant will be expected to publish peer-reviewed journal articles and effectively communicate with a wide range of physical and social scientists.

Necessary skills: geospatial statistics, large codebase management and programming (eg. SQL, Java, R). Desired skills: experience with GIS and spatial mapping/analysis, air quality experience, experience in carbon accounting/footprinting, energy supply/demand analysis, systems engineering.

Given the multidisciplinary nature of the research, a highly self-directed, creative and self-motivated individual is sought. The appointment will be made initially for one year (6/1/14 through 5/31/15) with possibility of extension for additional years. Start date, however, is flexible.

Applicants should send a cover letter describing their research experience and interests, a curriculum vita, and have three reference letters sent to (email or surface mail): Prof. Kevin Gurney, School of Life Science, Arizona State University, PO Box 874501, Tempe, AZ, 85287-4501. kevin.gurney@asu.edu (email preferred).