Post-doctoral Research Associate to study the carbon budget of the US corn belt

The [Cooperative Institute for Research in Environmental Sciences](http://cires.colorado.edu/) (CIRES) and University of Colorado in Boulder, Colorado, invite applications for a post-doctoral research associate to participate in a new NASA Carbon Monitoring System project aimed at achieving better understanding of carbon cycling in the US corn belt. The project is part of a new collaboration between researchers at CIRES, NOAA/ESRL, the University of Illinois, the Carnegie Institution for Science, Caltech, and the University of Virginia: “Improving the monitoring capability of the carbon budget for the US corn belt – integrating multi-source satellite data with improved land surface modeling and atmospheric inversions” (<https://carbon.nasa.gov/cgi-bin/inv_pgp.pl?pgid=3748&fullab=1#abanchor)>. The candidate will work closely with Dr. Caroline Alden, Dr. John Miller and Dr. Arlyn Andrews at CIRES and NOAA/ESRL, and will also collaborate with Dr. Joe Berry and project PI Dr. Kaiyu Guan.

The successful applicant will contribute to the creation of a comprehensive carbon monitoring system for US croplands by performing atmospheric inversions for CO2 fluxes across the US corn belt. The applicant will use satellite and *in situ* data in inversions, and integrate top-down flux estimates with bottom-up estimates developed using novel satellite datasets and USDA crop statistics. The successful applicant will work closely with researchers at CIRES and the NOAA/ESRL Global Monitoring Division carbon cycle group, and will also have ample opportunities for collaboration with other project participants. Candidates should have a PhD in a relevant field of study and programming experience. Some experience using satellite and/or *in situ* observations in regional or global inversions or a related statistical/mathematical background would be ideal but not necessary. The successful candidate will have demonstrated the ability to carry out research and publish in the peer-reviewed literature.

The appointment begins in June 2018 (with some flexibility) and will be for 2 years with possibility for a 3rd year.

Interested applicants should send the following materials to Caroline Alden (caroline.alden@noaa.gov): (1) a curriculum vitae, (2) a statement of research experience and interests, and (3) the names and contact information of at least three individuals from whom letters of reference may be requested.