



THE COMPUTATION INSTITUTE  
UNIVERSITY OF CHICAGO AND ARGONNE  
NATIONAL LABORATORY



AND

CENTER FOR ROBUST DECISION-MAKING  
ON CLIMATE AND ENERGY POLICY

## **Postdoctoral position in regional and global crop modeling, climate change and adaptation**

A postdoctoral position is available to study regional and global food production, technology and climate change. Research will focus on arid and semi-arid regions and especially regions where groundwater use is currently high, but many elements will be extensible to continental and global scales. Potential research topics include multi-factor vulnerability and agricultural adaptation. The successful candidate will also take a leadership and organizational role in the AgMIP Global Gridded Crop Model Intercomparison (GGCMI) project and help to develop future scenarios, design experiments, and write papers with this dynamic international community.

This position is offered by the University of Chicago center for Robust Decision-making in Climate and Energy Policy (RDCEP) in partnership with the Columbia University Center for Climate Systems Research (CCSR). Primary project supervisor is Joshua Elliott (RDCEP/CCSR) with additional supervision by Ian Foster (RDCEP/Computation Institute). The position is expected to be located primarily at Columbia University and includes expectation of regular travel to the University of Chicago and other places to support group interactions.

Research is expected to include scenario development (characterizing climate, technological, and adaptive changes and resource constraints), model setup and calibration (primarily for crop models such as DSSAT and APSIM), statistical modeling, experimental design, and much more. Applicants should have strong experience in agronomy/ crop modeling, climatology, statistics or closely related fields. Experience in programming (especially Python and/or Fortran) and manipulation of large datasets (e.g. using NetCDF operators or similar) and previous experience with crop models (especially at large scales) and statistics is highly desirable. Postdoctoral appointments are renewable annually but expected duration would be at least two years.

*To apply, email a CV, statement of research interests, and names and contact information for at least two references to: Alison Brizius ([abrizius@uchicago.edu](mailto:abrizius@uchicago.edu)), Executive Director, RDCEP. The University of Chicago is an equal opportunity/affirmative action employer.*