

Postdoctoral Fellow: Air Quality/Climate Modeling



The Laboratory for Air Quality Research (<http://tinyurl.com/aerosol-csu>) and Aerosol and Cloud Research Group (<http://pierce.atmos.colostate.edu>), spanning the Departments of Mechanical Engineering and Atmospheric Sciences at Colorado State University, have an opening for a post-doctoral researcher in the field of regional air quality/climate modeling. The successful candidate will play a leadership role in a multi-disciplinary research project (funded by DOE-Atmospheric Science Research) focused on improving the representation of organic aerosols and studying the radiative and cloud effects in large-scale three-dimensional models. Research will occur under the supervision of Dr. Shantanu Jathar (Mechanical Engineering) and Dr. Jeffrey Pierce (Atmospheric Sciences) at the Powerhouse Energy Campus (<http://www.energy.colostate.edu>) in collaboration with the Dr. Christopher Cappa (Civil and Environmental Engineering) at the University of California Davis.

The selected candidate will have a doctoral degree in a science or engineering field (e.g., Environmental Engineering, Chemical Engineering, Atmospheric Sciences, Earth Sciences) with research experience in air pollution and/or atmospheric chemistry. Preference will be given to candidates that have strong numerical modeling skills, experience with chemical transport models (e.g., WRF-Chem, CMAQ) and programming/scripting languages (e.g., Fortran, Python), demonstrated communication skills (written and oral), organizational and time management skills, the ability to work independently and within collaborative teams, and enthusiasm for air quality, climate science, and public health.



The position is mostly dedicated (~80% of the time) to design, develop, and deploy numerical schemes to represent the emissions, physicochemical transformation, and fate of organic aerosols in box and three-dimensional models. The other 20% of the position will be used to support grant writing for Drs. Jathar and Pierce and mentoring graduate and undergraduate students. The position is full-time with a multi-year duration, contingent upon satisfactory performance and continued funding. Salary is negotiable and commensurate with experience. Colorado State University (<http://www.colostate.edu>) is located in Fort Collins, Colorado below the foothills of the Northern Front Range of the Rockies (<http://www.visitftcollins.com/>). To apply, please send a cover letter, curriculum vitae, and list of three references to Stephanie Rosso (stephanie.rosso@colostate.edu). For full consideration applications should be received by November 26, 2017; the position will remain open until filled.

Colorado State University does not discriminate on the basis of race, age, color, religion, national origin or ancestry, sex, gender, disability, veteran status, genetic information, sexual orientation, or gender identity or expression. Colorado State University is an equal opportunity/equal access/affirmative action employer fully committed to achieving a diverse workforce and complies with all Federal and Colorado State laws, regulations, and executive orders regarding non-discrimination and affirmative action. The Office of Equal Opportunity is located in 101 Student Services. Colorado State University is committed to providing a safe and productive learning and living community. To achieve that goal, we conduct background investigations for all final candidates that being considered for employment. Background checks may include, but are not limited to, criminal history, national sex offender search and motor vehicle history. Reflecting departmental and institutional values, candidates are expected to have the ability to advance the Department's commitment to diversity and inclusion.