



# Graduate Research Assistantship in Atmospheric Lidar and Microscale Meteorology at California State University Chico

**Deadline for Application: 1 March 2010**

The Graduate School at California State University Chico is pleased to announce an opening for a graduate research assistantship (GRA). The opportunity is funded by the National Science Foundation's Physical and Dynamic Meteorology Program under Award 0924407. The GRA will provide tuition reimbursement for US citizens and permanent residents<sup>1</sup> and \$1000 per month stipend. As a condition for the appointment, the individual must be enrolled in one of the following master's programs: Environmental Science, Geoscience, Electrical and Computer Engineering, Computer Science, or Interdisciplinary Studies. Applicants will be considered based on their admissibility into one of the above programs, the strength of their academic preparation, letters of reference, and their interest in pursuing subsequent doctoral work in atmospheric science or a related field.

The student's research must be aligned with the scientific objectives sought under the grant and result in a master's thesis, a journal article, a conference paper, and a conference presentation at the end of two years. The research will be related to evaluating the accuracy and reliability of algorithms such as the correlation technique to derive the two-dimensional and two-component vector wind field in the atmospheric boundary layer from aerosol lidar images. The data collection aspect of the study is already complete. The remaining research requires programming, data processing, data analysis, writing, and preparation of manuscripts and conference presentations. Accuracy and reliability of the vectors derived from the lidar data will be compared with measurements of wind from sonic anemometers and evaluated as a function of turbulent kinetic energy and stability.

Interested applicants should:

a) Send a letter of interest, describing their academic qualifications and professional interest, along with the contact information for at least one academic reference, to: Dr. Shane D. Mayor, Department of Physics, California State University Chico, Chico, CA 95929-0202. Email: [sdmayor@csuchico.edu](mailto:sdmayor@csuchico.edu).

b) Apply for admission to one of the graduate programs listed above. Information on graduate admission requirements, program contacts and admission deadlines can be found through the university's web site at: <http://www.csuchico.edu/giis/gs/admission.html>.

<http://www.phys.csuchico.edu/lidar/>

<sup>1</sup> Non US citizens and residents should inquire regarding eligibility for tuition reimbursement.

