



# UNIVERSITY OF WYOMING

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The University of Wyoming is looking for MSc or PhD applications for the following potential research projects starting in Fall semester 2022:

- Retrieval of vertical velocity and dual-Doppler synthesis from multiple radar antennas on an aircraft (Geerts)
- Airborne instrument characterization and algorithm development (several faculty)
- Mesoscale organization and microphysics of shallow convective clouds in cold-air outbreaks over open water (Geerts, French)
- Methane emission from cattle feedlots (Caulton)
- Fugitive greenhouse gas emissions from unconventional oil and gas (Caulton, Murphy)
- Development of instrumentation for aerosol optical properties (Murphy)
- Estimating population exposure to air pollution using diffusive samplers and low-cost sensors (Field)
- Modeling of convection, with a focus on cloud and precipitation processes (Lebo)
- Microphysics of clouds producing freezing precipitation over the eastern US and Canada (French)
- Snow pack depth estimation in complex terrain, and regional climate model validation (Geerts)
- Regional climate modelling, global warming, and water availability in the Wyoming Headwaters (Lebo, Geerts)

Graduate assistantships include tuition and fees, and are among the *most generous of all Atmospheric Science graduate degree programs in the nation*, when accounting for differences in the local cost of living. See Table 1 in Card et al. (2020), <https://doi.org/10.1175/BAMS-D-19-0122.1>  
Laramie hosts the highest campus in the nation (7,200 ft) and has ready access to ski resorts and mountain wilderness areas.

If you are interested in any of the topics above, contact the faculty listed in parentheses, or Zachary J. Lebo (Zachary.Lebo@uwyo.edu)

*We recommend that complete applications be submitted by 2 January. Later submissions are acceptable, but we cannot guarantee equal consideration.*

