

Summer Research Experience for Undergraduates (REU) at the Bonanza Creek Long-Term Ecological Research Program, Fairbanks, Alaska

The Bonanza Creek (BNZ) Long-Term Ecological Research Program (<https://www.lter.uaf.edu/>) based at the University of Alaska Fairbanks is recruiting undergraduate students to contribute to ecological research in the boreal forest, summer 2022. The BNZ program studies responses of boreal ecosystems to fire, permafrost thaw, and changing climate. Students will complete independent research projects related to one of the following topics:

- 1) disease ecology and genetics of aspen canker
- 2) nutrient cycling in streams draining fire and thawing permafrost
- 3) microbial genomics of coupled mercury and carbon cycling
- 4) carbon dynamics in boreal streams
- 5) greenhouse gas production in thawing permafrost

Students will gain training in laboratory procedures, field work, research design, and data analysis. REU students will participate in weekly professional development seminars and will present their research in a symposium at the end of the program. The 10-week program will include a stipend, housing allowance, travel to Alaska, and research funds.

Applicants must be current undergraduate students (graduating Fall 2022 or later). To apply, submit a cover letter, CV or resume, and contact information for two professional references as a single pdf titled with your last name to uaf-arctic-lab@alaska.edu by March 20. Your cover letter should include:

- description of your interests in ecological research
- list of relevant coursework in science and math/statistics
- your educational and career objectives
- your expectations for a successful summer research experience
- identify at least one of the five research topics described above that you are interested in pursuing