

## Postdoc Position Available at CU DENVER NIST PREP Program

### NIST Organization (Div/Group): [Ion Storage Group](#)

The National Institute of Standards and Technology (NIST), Boulder, Colorado, Physical Measurements Laboratory (PML) has a postdoctoral research position available immediately. The position includes activities in quantum optics, semiconductor nanostructures, precision spectroscopy, and optical system design.

### Postdoc Position Research Title:

- Quantum information processing with mixed species trapped ions. The work will entail:
- The candidate will work in a team on implementing basic building blocks of scalable quantum information processing with mixed species trapped ions.

### General Duties and Responsibilities:

- Work with a team made up of NIST permanent staff members, postdoctoral scholars and graduate students to upgrade existing apparatus
- plan and build new parts of the apparatus
- implement and evaluate experiments
- disseminate results of experiments through publication in journals and presentations.

### Qualifications:

- PhD degree in physics or equivalent degree from a foreign university.
- Experience in experimental design and execution of experimental work in an atomic physics laboratory.
- Good understanding of laser technology and nonlinear frequency conversion.

**NIST Sponsor Name:** [dietrich.leibfried@nist.gov](mailto:dietrich.leibfried@nist.gov)

**Level of Appointment :** Postdoc

**Salary Determination:** \$77,000 - \$79,000

**Length of Term:**

**Start date :** 2024-12-15

**End date:** The position is for up to five years, subject to performance-based annual renewal and the availability fund.

For possible consideration and to apply to this position, qualified candidates should send a current CV, including contact information for three references and a publication list, to professor Hamid Fardi ([hamid.fardi@ucdenver.edu](mailto:hamid.fardi@ucdenver.edu)).

**CU Denver PREP posting:** [https://engineering.ucdenver.edu/research/prep-research program](https://engineering.ucdenver.edu/research/prep-research-program)