

## Postdoc Position Available at CU Denver NIST PREP Program

NIST Organization (Div/Group): [Atomic Devices & Instrumentation Group](#)

This position is part of the National Institute of Standards (NIST) Professional Research Experience (PREP) program. NIST recognizes that its research staff may wish to collaborate with researchers at academic institutions on specific projects of mutual interest, thus requires that such institutions must be the recipient of a PREP award. The PREP program requires staff from a wide range of backgrounds to work on scientific research in many areas. Employees in this position will perform technical work that underpins the scientific research of the collaboration.

**Research Title:** Chip-scale Doppler Thermometry

### Postdoc Position Description:

The candidate will develop compact vapor cells for a new NIST IMS project on Doppler thermometry. The candidate will develop fabrication processes, fabricate cells and test cells for suitability to the project. Candidate will write papers for publication in leading scientific journals and present work at national and international conferences and workshops.

### General Duties and Responsibilities:

- Develop new ideas and processes for fabricating micromachined alkali and alkaine earth vapor cells
- Work in the laboratory to produce cells
- Test cells for suitability for Doppler thermometry
- Write scientific papers and present work at conferences

### Qualifications:

- A PhD in Physics, Quantum Information Science, or a related field.
- Background in atomic physics and spectroscopy
- Two years of post-doctoral experience
- Ability to develop prototypes of tools needed to analyze data.
- Strong oral and written communication skills.

**NIST Sponsor Name:** John Kitching ([john.kitching@nist.gov](mailto:john.kitching@nist.gov))

**Level of Appointment:** Postdoc

**Salary Determination:** \$77,000 – \$78,000

### Length of Term:

Start Date: 2025-06-01

End Date: 2028-03-15

**How to Apply:** 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)