

Assistant Project Scientist - Radio Astronomy Lab
University of California Berkeley

Direct Link: <https://www.AcademicKeys.com/r?job=253763>

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Posted Feb. 26, 2025, set to expire Feb. 27, 2025

Job Title	Assistant Project Scientist - Radio Astronomy Lab
Department	Radio Astronomy Lab
Institution	University of California Berkeley Berkeley, California
Date Posted	Feb. 26, 2025
Application Deadline	02/27/2025
Position Start Date	Available immediately
Job Categories	Research Scientist/Associate
Academic Field(s)	Physics - General Astronomy and Astrophysics
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Job Description	

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Assistant Project Scientist - Radio Astronomy Lab

Position overview

Position title: Assistant Research Scientist

Salary range: The UC academic salary scales set the minimum pay determined by rank and step at appointment. See the following table(s) for the current salary scale(s) for this position:

https://www.ucop.edu/academic-personnel-programs/_files/2024-25/july-2024-scales/t37-b.pdf. A reasonable estimate for this position is \$74,100-100,900.

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Percent time: 100%

Anticipated start: Spring 2025

Position duration: One year initial appointment, with a second year contingent upon funding and performance

Application Window

Open date: January 16, 2025

Most recent review date: Monday, Feb 24, 2025 at 11:59pm (Pacific Time)

Applications received after this date will be reviewed by the search committee if the position has not yet been filled.

Final date: Thursday, Feb 27, 2025 at 11:59pm (Pacific Time)

Applications will continue to be accepted until this date, but those received after the review date will only be considered if the position has not yet been filled.

Position description

Radio Astronomy Lab experiments span the measurement of primordial inflation in the polarization of the cosmic microwave background, the exploration of the cosmic dawn and reionization of the universe, the direct imaging of black holes, the detection of fast radio bursts from galactic magnetars, and the search for techno-signatures from extraterrestrial life. Most experiments are ground based telescope arrays (e.g. HERA, Hyperion), but some are space based (e.g. LUSEE, Curios).

UC Berkeley's Radio Astronomy Laboratory seeks applications for a Project Scientist specializing in radio astronomy instrumentation design. The successful candidate will engage in, designing and developing cutting edge electronics and digital signal-processing instrumentation for experiments that facilitate the exploration and understanding of our universe. These instruments include receivers, digitizers, correlators, beamformers, spectrometers, time and frequency distribution systems, RF over fiber transmitters and receivers, and instrumentation for cosmology, pulsar, fast radio burst, and SETI research. The incumbent will be involved in national and international collaborations, and will be expected to present their electronics and developments at national and international conferences and present their instruments in peer reviewed scientific presentations. The incumbent will also assist students, postdocs, and visiting scientists with design and development of their astronomy instrumentation.

Division

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: <https://vcresearch.berkeley.edu/research-unit/radio-astronomy-laboratory>

Qualifications

Basic qualifications (required at time of application)

PhD or equivalent international degree

Preferred qualifications

- PhD in Astronomy, Physics, or Electrical Engineering.
- Expertise in electronic circuit design
- Proficiency with: Linux, Python, C, Verilog, VHDL, CUDA, MATLAB, and Simulink
- Expertise in high throughput Digital Signal Processing (DSP), FPGA, and GPU programming
- Experience in high-level design and deployment of radio astronomy instrumentation
- Experience with high speed ethernet networks, and data transfer from Network Interface Board (NIC) to GPU
- Strong communication skills in order to write reports and correspondence, speak effectively before groups of students and researchers.
- Expertise in printed circuit board layout.
- Several years of experience working in a research lab.
- A record of publishing in refereed journals
- Commitment to collaborative development of open-source software
- Familiarity with the work of the Collaboration for Astronomy Signal Processing and Electronics Research

Application Requirements

Document requirements

- Curriculum Vitae - Your most recently updated C.V.
- Cover Letter (Optional)
- Statement of Research
- Statement on Contributions to Diversity, Equity, Inclusion, and Belonging - Statement on your contributions to diversity, equity, inclusion, and belonging in research, teaching, and service, including information about your record of activities to date, and plans for contributing if hired at UC Berkeley. [More Information and guidelines.](#)
- Publications - List of Publications

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Reference requirements

- 3-5 required (contact information only)

Apply link: <https://aprecruit.berkeley.edu/JPF04738>

Help contact: jsharp@berkeley.edu

About UC Berkeley

UC Berkeley is committed to diversity, equity, inclusion, and belonging. The excellence of the institution requires an environment in which the diverse community of faculty, students, and staff are welcome and included. Successful candidates will demonstrate knowledge and skill related to ensuring equity and inclusion in the activities of their academic position (e.g., teaching, research, and service, as applicable).

The University of California, Berkeley is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age, or protected veteran status.

Please refer to the [University of California's Affirmative Action Policy](#) and the [University of California's Anti-Discrimination Policy](#).

In searches when letters of reference are required all letters will be treated as confidential per University of California policy and California state law. Please refer potential referees, including when letters are provided via a third party (i.e., dossier service or career center), to the [UC Berkeley statement of confidentiality](#) prior to submitting their letter.

As a University employee, you will be required to comply with all applicable University policies and/or collective bargaining agreements, as may be amended from time to time. Federal, state, or local government directives may impose additional requirements.

As a condition of employment, the finalist will be required to disclose if they are subject to any final administrative or judicial decisions within the last seven years determining that they committed any misconduct, are currently being investigated for misconduct, left a position during an investigation for alleged misconduct, or have filed an appeal with a previous employer.

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- "Misconduct" means any violation of the policies or laws governing conduct at the applicant's previous place of employment, including, but not limited to, violations of policies or laws prohibiting sexual harassment, sexual assault, or other forms of harassment, discrimination, dishonesty, or unethical conduct, as defined by the employer.
- [UC Sexual Violence and Sexual Harassment Policy](#)
- [UC Anti-Discrimination Policy for Employees, Students and Third Parties](#)
- [APM - 035: Affirmative Action and Nondiscrimination in Employment](#)

Job location

Berkeley, CA

To apply, visit <https://aprecruit.berkeley.edu/JPF04738>

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

N/A

University of California Berkeley

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