

Assistant/Associate/Full Project Scientist - Neuroscience
MR-Imaging - Feinberg Lab - Department of Neuroscience
University of California Berkeley

Direct Link: <https://www.AcademicKeys.com/r?job=252852>

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Posted Feb. 7, 2025, set to expire Feb. 28, 2025

Job Title	Assistant/Associate/Full Project Scientist - Neuroscience MR-Imaging - Feinberg Lab - Department of Neuroscience
Department	Neuroscience
Institution	University of California Berkeley Berkeley, California
Date Posted	Feb. 7, 2025
Application Deadline	02/28/2025
Position Start Date	Available immediately
Job Categories	Research Scientist/Associate
Academic Field(s)	Physics - General Computer/Information Sciences Biology - Neuroscience/Neurobiology
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Position overview

Salary range: The UC academic salary scales set the minimum pay determined by rank and step at

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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. The current base salary range for this position is \$74,100-\$140,700. "Off-scale" salaries, which yield compensation that is higher than the published system-wide salary at the designated rank and step, are offered when necessary to meet competitive conditions.

Percent time: 100%

Anticipated start: 2024/2025

Position duration: One year with the possibility of extension based on performance and availability of funding.

Application Window

Open date: October 7, 2024

Most recent review date: Wednesday, Nov 6, 2024 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: Friday, Feb 28, 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

The Department of Neuroscience at the University of California, Berkeley seeks applications for an Assistant/Associate/Full Project Scientist in the area of brain MR Imaging in the Feinberg Lab. The goal of the project supporting this position is to advance scientific discovery using the Next Generation (NexGen) 7T scanner, the most powerful 7T scanner in the world. The project supports the NexGen 7T scanner as a resource for the neuroscience research community to perform neuroimaging at the scale of cortical layers and columns. Towards this effort, the Project Scientist will participate and assist in leading NexGen 7T research projects. The position is part of a collaborative team-building effort in the Feinberg Lab, combining expert scientists in hardware, software and neuroscientists.

The Project Scientist will be expected to collaborate with academic and industrial partners, as well as mentor and train graduate and undergraduate students. The Project Scientist will also be expected to lead the development of novel imaging sequences and image reconstruction techniques to fully utilize

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the NexGen 7T scanner's high performance Impulse gradient system at 7T (200mT/m, 900 slew rate), 64 - 128 channel high-density receiver arrays, dynamic shim array, and 16 channel parallel transmit system.

In addition to experimental research, general support duties include:

- Supporting project related pulse sequences and updating external users' sequence code to operate on the current NexGen 7T scanner platform.
- Manage QA of the RF coils and scanner peripherals
- Collaborate with industrial partners on the maintenance of scanner components
- Contribute to the maintenance of lab SOPs and scan protocols
- Data collection and storage management
- Data processing, analysis, and image reconstruction

Additional duties include:

- Preparation and submission of manuscripts
- Preparation and submission of grants
- Response to reviewers
- Presentation at conferences
- Attend weekly lab meetings and give regular presentation at these meetings

Contract: <https://ucnet.universityofcalifornia.edu/resources/employment-policies-contracts/bargaining-units/academic-researchers/contract/>

Lab: <https://www.advancedmri.com/index.html>

Qualifications

Basic qualifications (required at time of application)

PhD (or equivalent international degree)

Preferred qualifications

- PhD (or equivalent international degree) in the area of Neuroscience, Bioengineering, Electrical Engineering, Physics, Computer Science etc. or a related field
- Demonstrated experience in high resolution functional and structural MR-imaging of the brain
- A track record of peer-reviewed publications and talks at conferences
- Demonstrated experience in MRI sequence programming

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- Demonstrated experience in MRI reconstruction and parameter mapping
- Demonstrated experience in high field MR-imaging
- Demonstrated programming skills in C, C++, Python and MATLAB
- Demonstrated experience in MRI hardware engineering (e.g., RF systems & circuit design)
- Ability to communicate research to public and potential partners
- Experience in any subset of: MRI pulse sequence design, MRI parameter mapping, MRI Image reconstruction, or MRI RF system development. This position will require experience in high field, high resolution functional and structural MR-imaging of the brain.

Application Requirements

Document requirements

- Curriculum Vitae - Your most recently updated C.V.
- Cover Letter (Optional)

Reference requirements

- 3 required (contact information only)

Apply link: <https://aprecruit.berkeley.edu/JPF04290>

Help contact: david.feinberg@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).

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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.

- "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/JPF04290>

Contact Information



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Please reference Academickeys in your cover letter when
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Contact

N/A

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