



# David Geffen School of Medicine

## **Assistant Project Scientist Position in Neuromodulation**

The UCLA Neuromodulation Division is accepting applications for an Assistant Project Scientist to become part of a growing team performing clinical and translational research on the use of Transcranial Magnetic Stimulation (TMS) for the treatment of depression and other conditions.

Various ongoing projects will provide cutting edge neuromodulation research opportunities including the development of biomarkers using TMS-EEG (electroencephalography), advancing the understanding of mechanisms of action of rTMS with EEG and neuroimaging methods, as well as the design of individualized treatment approaches. Specific projects include a multi-center NIH-funded study examining rTMS administration at resonant frequencies of the brain to enhance the entrainment of networks; a trial using a dual-target stimulation for the treatment of chronic pain and depression; and closed-loop real-time rTMS-approaches for the treatment of pain.

The applicant will be working as part of a collaborative team with other clinicians and researchers and will be able to contribute and develop their own ideas for data mining, signal processing and statistical analysis within the framework of the project. There will be numerous mentoring and training opportunities including TMS methods, methodological workshops and participation at seminars and conferences.

The role of the future Assistant Project Scientist will include but are not limited to:

1. Applicant will be performing the preprocessing and analysis of clinical data, and neuroimaging and brain stimulation data (TMS-EEG and/or MRI data).
2. Applicant will advise investigators regarding the most current and appropriate statistical methods for testing research hypotheses.
1. Applicant will respond to data analyses requests from investigators on an as-needed basis and communicate with collaborators.
2. Applicant will prepare summaries, graphs, tables and interpretation of data for periodic reports, publications and presentations.
3. Applicant will contribute to planning and submitting of grants, and the preparation of manuscripts and based on statistical analysis of research data.
4. Applicant will supervise work conducted by research assistants and/or graduate students.
5. Applicant will attend internal research meetings of the Neuromodulation faculty, journal clubs, and invited faculty seminars.

## Required experience and skills

1. The minimum educational requirement is a Ph.D in neuroscience, data science, engineering, computer science or related fields.
2. Publication track record in the advanced analysis of human or animal electrophysiological data.
3. Knowledge of MATLAB, EEGLAB, FSL, R software is required.
4. Must have high level of knowledge and experience in statistical modeling and analysis for research projections, knowledge of designing research studies and methodology; and experience in utilizing machine learning methods for data analysis.
5. Experience with TMS-EEG data and especially TMS-induced artifact processing, as well as Python programming skills are desirable.

The posted UC salary scales set the minimum pay determined by rank and step at appointment. See Table(s) <https://www.ucop.edu/academic-personnel-programs/files/2024-25/july-2024-scales/t37-b.pdf>. The salary range for this position is \$74,100 - \$85,900.

Interested applicants must submit: i) a cover letter outlining academic interests and a brief statement about contributions to equity, diversity, and inclusion\*; ii) curriculum vitae with bibliography; and iii) contact information for three potential references to the application portal at <https://recruit.apo.ucla.edu/JPF09659>.

For more information, please contact at Ghada Elmachtoub at [GElmachtoub@mednet.ucla.edu](mailto:GElmachtoub@mednet.ucla.edu).

(\*Statement of Contributions to Diversity - Please see the following page for more details: <https://regents.universityofcalifornia.edu/governance/policies/1111.html>)

*Cultural North Star. The shared values of the DGSOM are expressed in the Cultural North Star, which was developed by members of our community and affirms our unswerving commitment to doing what's right, making things better, and being kind. These are the standards to which we hold ourselves, and one another. Please read more about this important DGSOM program at <https://medschool.ucla.edu/cultural-north-star>*

*The University of California 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. For the complete University of California nondiscrimination and affirmative action policy see: UC Nondiscrimination and Affirmative Action Policy.*