Title:

Director, Computational Integrated Diagnostics Program

Description:

The Department of Radiological Sciences in the David Geffen School of Medicine at UCLA has a full-time opening for a tenured professor. The incumbent is expected to lead a Computational Integrated Diagnostics program that pursues the development of novel machine learning methods that integrate radiology, pathology, and –omic data into multi-scale models. The program will also have clinical and service goals, including the oversight and development of novel integrated clinical reports, and serving as a resource for other department faculty to engage in machine learning. The successful applicant will also be involved in teaching, and will be expected to perform University service.

Candidates must have: 1) expertise and tangible experience in machine learning in the area of radiologic and pathologic image analysis; 2) a track record of peer-reviewed publications and extramural grant funding (e.g., NIH) in the application of machine learning in radiology and/or pathology; 3) a history of teaching, including teaching courses and mentoring students and postdocs; and 4) experience in developing clinically functional reporting systems that can integrate clinical and research diagnostic information from radiology and pathology for use in clinical practice. The candidate must possess a PhD in the area of Biomedical Informatics, Electrical Engineering, Computer/Information Science, or related field. Candidates should currently hold a position of Assistant or Associate Professor, with a minimum of eight years of service. Especially desirable candidates will have experience in whole slide pathology imaging protocols, clinical IT, software development, and a history of collaboration with physician specialists across multiple disciplines in the field of Biomedical Informatics. There is emphasis on the development of radiology-pathology image analysis and multi-scale modelling in cancer with particular interest in prostate cancer.

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Required Qualifications:

1) Possess a PhD in the area of Biomedical Informatics, Electrical Engineering, Computer/Information Science, or related field.
2) Currently hold a position in an academic senate title with a minimum of eight years of service at the level of Assistant or Associate Professor.

Preferred Qualifications:

1) Expertise and tangible experience in machine learning in the area of radiologic and pathologic image analysis.

2) A track record of peer-reviewed publications and extramural grant funding (e.g., NIH) in the application of machine learning in radiology and/or pathology.
3) A history of student/postdoc mentorship demonstrated through peer-reviewed publications.
4) A history of developing and teaching courses in Biomedical Informatics for physicians and graduate students.
5) Experience in developing clinically functional reporting systems that can integrate clinical and research diagnostic information from radiology and pathology for use in clinical practice.
6) Expert knowledge of clinical IT and interfaces for exchanging clinical information in EHRs.
7) Experience in developing whole slide imaging protocols for pathology images.
8) Experience in leading a software development team in building clinical applications.
9) The interpersonal skills for collaborating in Biomedical Informatics with physician specialists across multiple disciplines.
10) Expertise in radiology-pathology image analysis and multi-scale modelling in cancer, particularly prostrate cancer.