

## Research Associate

### Radiation Oncology, City of Hope National Medical Center

#### Job Summary:

The Radiation Oncology Department at City of Hope National Medical Center (COH) in the great Los Angeles area has an exciting opportunity to join our team as a Research Associate with a lot of exposure to clinical practice of radiotherapy physics. City of Hope is currently ranked as the 10<sup>th</sup> "Best Hospital" for cancer in the United States by U.S. News & World Report. The Radiation Oncology Department at COH is the largest Radiation Oncology enterprise in southern California with more than 25 Linear Accelerators (Linacs) including special designed machines such as MR-guided Linac and PET-guided linac, Varian Ethos with adaptive radiotherapy capabilities. Different imaging simulators are also available within the department including CT, PET/CT and MRI. Research is highly active here. Join the forefront of groundbreaking research at the [Beckman Research Institute of City of Hope](#), where we're changing lives and making a real difference in the fight against cancer, diabetes, and other life-threatening illnesses. Our dedicated and compassionate faculty and staff are driven by a common mission: Contribute to innovative approaches in predicting, preventing, and curing diseases, shaping the future of medicine through cutting-edge research.

Under the general supervision of the Principal Investigator, the Research Associate will implement novel magnetic resonance imaging (MRI) and image processing techniques for the application in radiation therapy, including imaging guidance of radiotherapy treatment planning, treatment delivery and assessment of treatment outcomes.

The person in this position will get a chance to be considered as an internal candidate for our physics residency program with priority.

#### Primary Responsibility:

- Develop novel magnetic resonance imaging technique
- Develop new medical image reconstruction/post-processing techniques using conventional and deep-learning based approaches
- Coordinate research imaging studies to promote applications of MRI in the application of radiotherapy
- Troubleshoot procedures if experiment results are unexpected or unsatisfactory. Recommend alternative procedures.
- Independently evaluate research data and initiate alternative approaches to improve the quality of results by providing input to overall research design
- Contribute to the preparation of manuscripts by describing methods and specialized techniques, presenting collected results

#### Required Qualifications:

- Master's degree minimum, PhD preferred.
- Minimal two years related research experience in the medical imaging or related computer science field with knowledge about magnetic resonance imaging, image processing.
- AI experience is a plus

Interested applicants please email your CV to Dr. Kun Qing at **[kqing@coh.org](mailto:kqing@coh.org)**

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