

**Description:**

NIH-funded research position is available for a postdoctoral fellow with experience in biomedical engineering or nanotechnology with special emphasis on nano or small molecule conjugation chemistry for cancer imaging and therapy projects using novel magneto-optical nanoparticles. The focus of the research will be on (1) preclinical evaluation of magneto-optical nanoparticles for tumor imaging and plasmonic nanoparticles for photothermal cancer therapy and triggered release of peptides and oligonucleotides, and (2) optimizing combinations of radiation therapy and customized nanoparticles for maximum synergy. This position will be in the Department of Experimental Radiation Oncology at the MD Anderson Cancer Center and will involve collaborations with Rice University and Baylor College of Medicine. Applicants with experience in interdisciplinary research involving biomedical engineering and/or combinatorial chemistry are encouraged to apply. The initial appointment will be for 1-2 years with the potential for extension depending upon performance. Salary will be based on the level of experience. Screening of applicants will begin immediately and will continue until the position is filled.

Qualifications:

Qualified individuals should have a PhD and research experience in chemistry, biomedical engineering, or nanomedicine. Previous experience in cell culture, animal experimentation/handling, optical imaging and MR imaging is desirable. Self-motivated candidates with a strong experimental background, excellent verbal and written communication skills, a strong academic record, the ability to work independently and the ability to work with collaborators from various backgrounds will be considered.

Please email the following information as a single PDF file to Sunil Krishnan at

skrishnan@mdanderson.org or Naomi Halas at halas@rice.edu

- (1) A cover letter including research interests and career plans, and
- (2) CV including contact information of three referees.