

The Multi-disciplinary Head & Neck Cancer Symptom Working Group is seeking a Postdoctoral Fellow

We are looking for candidates for postdoctoral fellowships to join **the Fuller Lab** in the Department of **Radiation Oncology** at The University of Texas MD Anderson Cancer Center. This postdoctoral fellowship will **engage in activities and projects designed to implement advanced informatics models for “Big Data” to address oncologic outcomes and toxicity prevention in head and neck cancers** such as:

- **Toxicity assessment risk and decision models (patient-reported outcomes, clinical symptom assessment, operations research, decision support tools)**
- **Clinical informatics (ontology, standards and lexicon development for toxicity and outcome reporting)**
- **High-dimensional data analysis (dynamic, spatial/non-spatial, and imaging analyses)**
- **Imaging informatics (MRI and radiomics analyses of tumor or normal tissue)**
- **Machine learning (including deep learning and supervised learning approaches)**

Qualified candidates should have a doctorate in **any of the following (or related) domains: informatics, statistics, data science, applied mathematics, operations research, medical physics, signal processing, dental science, symptom research, nursing, public health, health services research, epidemiology, medical physics (imaging physics/therapy physics), computer science, or physiology**. Prior experience in cancer prevention, **and quantitative scientific analyses** is preferred. Prior publications in **in field-specific** are to be submitted, but direct publication in cancer-related disciplines is not a requirement. All candidates must have evidence of strong writing and quantitative analysis skills, and a desire to engage in career-level appropriate grantpersonship. This postdoctoral fellowship provides an exceptional opportunity to develop research experience, publications in cancer prevention, **establish unique domain expertise, and develop grant-writing capacity with an aim towards faculty/industry appointment at term completion.**

The Fuller Lab is a part of the Multi-disciplinary Head and Neck Cancer Symptom Working Group at the MD Anderson is an innovative program, a programmatic effort to leverage multiple streams of domain knowledge to characterize, monitor, treat, and prevent cancer- and therapy-associated toxicity in head and neck cancer survivors, and includes resources from the MD Anderson Cancer Center Charles and Danae Steifel Oropharynx Cancer Program, Program in Image-Guided Cancer Therapy, Head and Neck Center, and Radiation Oncology Divisional MRI Research Program. Eligible candidates interested in this opportunity will **garner opportunity for mentored** research, development of cutting edge analytic and computational skills, involvement in human subjects research, including prospective clinical trials, and will seek funding through the Cancer Prevention Research Training Program (CP RTP) or analogous career development mechanisms (e.g. F- and K-series NIH awards) with Dr. Clifton D. **Fuller** as sponsoring mentor.

At MD Anderson, the Cancer Prevention Research Training Program (CP RTP) prepares health scientists and clinicians to assume leadership roles as research investigators in cancer prevention and control. Trainees appointed to the program will increase their knowledge of cancer prevention and control research and practice through curriculum-based learning; obtain hands-on experience in ongoing cancer prevention and control research projects under the mentorship of established investigators; and participate in workshops, scientific presentations, scientific writing, grant preparation, and professional development skills. Centered around

mentored research in cancer prevention and control guided by experienced faculty mentors, multidisciplinary training will be accomplished through a robust training plan that is founded on rigorous quantitative methods, a specialized cancer prevention educational curriculum, an individual development plan, and career development activities. Trainees are immersed in the type of cross-disciplinary research environment characteristic of cancer prevention and control, with the objective of launching the trainee in the role of principal investigator early in his or her career. The CPRTP is committed to building a demographically and scientifically diverse research workforce.

Selected applicants will be appointed to a two-year, full-time research postdoctoral fellowship position with a competitive salary and benefits. These positions are funded by a research training grant award from the Cancer Prevention and Research Institute of Texas (Award# RP170259, Drs. Shine Chang & Sanjay Shete, Principal Investigators).

For more details about the CPRTP, visit the main program web page at www.CancerPreventionTraining.org. For details about the CPRTP CPRIT-funded postdoc fellowship, visit: <https://www.mdanderson.org/education-training/clinical-research-training/postdoctoral-training/postdoctoral-fellowships/cprtp-postdoctoral-fellowship-in-cancer-prevention.html>

For inquires specific to working with the **the Fuller Lab** please email **Dr. Fuller (cdfuller@mdanderson.org)**, **Lab Director Dr. Abdallah Mohamed (asmohamed@mdanderson.org)** or **Lab Admin Setareh Sharafi (cssharafi@mdanderson.org)** or visit our website at <https://www.mdanderson.org/research/departments-labs-institutes/labs/fuller-laboratory.html>.

All application documents are due **Monday, February 15, 2021** by 11:59 p.m. CT.

Thank you,

Clifton D. Fuller, MD, PhD
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Division of Radiation Oncology