

CP RTP POSTDOC JOB DESCRIPTION AD TEMPLATE FOR FACULTY ADVERTISING FOR POSTDOCTORAL FELLOWS

Cancer Prevention Postdoctoral Training Opportunity in Health Services Research

We are looking for candidates for postdoctoral fellowships to join **Dr. Toumazis' group** in the Department of **Health Services Research** at The University of Texas MD Anderson Cancer Center. This postdoctoral fellowship will provide individuals with the opportunity to contribute to the design, implementation, analysis, and publication of studies focusing on health policy analytics and modeling. The position focuses on the development and application of computer simulation-based modeling to simulate the disease progression of specific cancers (e.g. lung cancer, ovarian cancer), assess the impact of alternative primary, secondary and tertiary prevention strategies on cancer incidence and mortality rates in the US population, and inform public health policy. Individuals will:

- Develop simulation models for decision analysis, cost-effectiveness analysis, and value of information analysis.
- Develop risk prediction models using advanced analytic methods.
- Work with the research team on development of decision aid tools.
- In coordination with the principal investigator, lead the research team in writing manuscripts and grant applications.

Qualified candidates should have a doctorate in industrial engineering, operations research, computer science, health services research, epidemiology, health-outcomes research, biostatistics or a related quantitative field. Prior experience in cancer prevention, stochastic simulation modeling, and/or dynamic programming is preferred. Publications in are important. All candidates must have evidence of strong writing and communication skills, and hands-on experience of general-purpose programming languages such as R, Julia, Python, or MATLAB. This postdoctoral fellowship provides an exceptional opportunity to develop research experience and publications in cancer prevention.

Eligible candidates interested in this opportunity will have the opportunity to work closely with clinicians and decision makers, and will seek funding through the Cancer Prevention Research Training Program (CP RTP) with Dr. Toumazis as sponsoring mentor. In addition, the scholar will have access to a group of dedicated mentors at MDACC whose expertise include and not limited to epidemiology, comparative effectiveness, health economics, quality of care, patient-centered outcomes, and decision analysis. MDACC has extensive resources for post-doctoral scholars, such as weekly grand rounds, training workshops, writing assistance, library support, and statistical support.

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 one-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 **Dr. Toumazis' group**, please email itoumazis@mdanderson.org or visit our website at https://faculty.mdanderson.org/profiles/iakovos_toumazis.html.

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

Thank you,

Iakovos Toumazis, PhD

Assistant Professor
Department of Health Services Research
Division of Cancer Prevention & Population Sciences
The University of Texas MD Anderson Cancer Center