Postdoctoral Research Fellow

The University of Texas Health Science Center at Houston (UTHealth)
McGovern Medical School
Department of Nanomedicine and Biomedical Engineering

**Position Description:** We are seeking one highly motivated postdoctoral researcher to join Dr. Vittorio Cristini (Professor) and Dr. Zhihui Wang (Associate Professor)’s research group in the Department of Nanomedicine and Biomedical Engineering. This appointment is expected to begin on **July 1, 2016** (start date negotiable). The successful applicant will be working on highly interdisciplinary research projects in the fields of mathematical cancer modeling and translational cancer research.

**Keywords:** Postdoc, Houston, mathematical modeling, cancer research, systems biology, systems medicine, computational biology, bioinformatics

**Qualifications:** A Ph.D. or equivalent degree in applied mathematics, physics, engineering, or related quantitative scientific discipline is required by the time the appointment begins. M.D. or M.D./Ph.D. candidates with advanced computational training are also encouraged to apply. Experience in cancer research is a plus.

The applicant should have expertise and experience in mathematical modeling, especially numerical computation and analysis, e.g., development of ODE and PDE solvers using C/C++, Fortran, and/or Matlab. A proven track record in peer-reviewed publications in related fields is expected. Qualified candidates should be highly self-motivated and possess the ability to work independently as well as in a multidisciplinary collaborative environment. Excellent interpersonal, organizational, and oral and written English communication skills are required.

The applicant will work closely with the team and our experimental and clinical collaborators at UTHealth, MD Anderson Cancer Center, Baylor College of Medicine, and other institutions here in Houston and across the country. The applicant will have the opportunity to work on advanced, challenging research projects, primarily on predictive multiscale modeling of cancer using hybrid or statistical approaches. If interested, the applicant can also lead or participate in relevant projects available in the lab, including (1) drug pharmacokinetics and pharmacodynamics (PKPD) models, (2) biophysical models for predicting drug response in local and metastatic cancers, and (3) patient-specific mathematical models using data obtained from standard-of-care diagnostic imaging (histology, CT, MRI).

**Special Instructions:** Candidates are encouraged to apply by **May 1, 2016**. Applications will be reviewed until the position is filled.

1. Cover letter
2. *Curriculum Vitae*
3. Research statement (1-page)
4. Three reference letters (the application is complete only when all three letters have been submitted)
5. Publications or copies of creative work (a maximum of 3), if applicable

UTHHealth is an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability status, protected veteran status, or any other characteristic protected by law.

Contact Information:

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