

October 22, 2018

Postdoctoral positions are available immediately in the Oncinfo Lab at The University of Texas Health Science Center in San Antonio (UT Health San Antonio). Also, interested predoctoral and MS applicants should apply to the appropriate graduate program (i.e, IBMS for PhD students, CSA MS for MS students) using the links provided under application procedures.

Position description

Successful candidates will contribute to development and application of cutting-edge computational methods and machine learning techniques to analyze next-generation sequencing data from large cohorts. They will contribute to highly-collaborative studies in the areas of cancer research and neuroscience. Various data are generated in these studies including RNA-Seq, WGS, WES, CHIP-Seq, etc. The primary focus of research in the Oncinfo Lab is on quick analyses of data, and efficiently incorporating them with publicly available datasets including TCGA, GEO, GTEx, etc, to infer useful biological information. While methodological advancements is secondary to this goal, we have developed novel tools and algorithms to improve data analysis using Bayesian networks and integrative correlation networks. The results are expected to be published in highly ranked journals.

Dr. Habil Zare is the PI of the Oncinfo Lab (see <http://oncinfo.org/> for more details). He has joint appointments at: 1) The Department of Cell Systems and Anatomy, consistently ranks high for NIH funding, and 2) The Glenn Biggs Institute for Alzheimer's & Neurodegenerative Diseases. The UT Health San Antonio is a **Tier One** research institution, and has ranked 1st in NIH funding for studies in aging, which provides a good foundation for research in neuroscience and cancer. San Antonio is a dynamic and multicultural city with an outstanding educational environment.

Qualifications

Required: Applicants should have a strong background in molecular biology and computer programming. However, exceptionally strong candidates with either background who are highly motivated for learning new concepts in biology and improving their programming skills will be considered. Ability for critical thinking and independent learning, and excellent written and oral communication skills are essential.

Preferred: Above average knowledge in machine learning, mathematics, computational biology, bioinformatics, statistics, R, prior experience in a related field, or experience in multidisciplinary research that has led to high-impact publications can increase chance for acceptance.

Compensation

Salary is competitive, and in the range of **\$50K-\$60K** for the postdoctoral positions. Cost of living is relatively low in San Antonio and there is no state income tax.

Application procedures

All interested candidates are encouraged to email a current CV and a cover letter to Dr. Habil Zare at zare@uthscsa.edu. Potential graduate students should also apply to the corresponding programs at: http://gsbs.uthscsa.edu/prospective_students/gsbs-application.

- The postdoctoral positions are open until filled. All postdoctoral appointments are designated as security sensitive positions. UT Health San Antonio is an Equal Employment Opportunity/Affirmative Act on Employer including protected veterans and persons with disabilities.
- PhD: See The Integrated Multidisciplinary Graduate Program (IMGP) http://gsbs.uthscsa.edu/graduate_programs; apply before 15 January 2019.
- MS: See Master of Science in Biotechnology <http://uthscsa.edu/csa/grad-ms.asp>; apply before 15 February 2019.