

Parker Institute for Cancer Immunotherapy Biological Data Science Fellowship Job Description

The Parker Institute for Cancer Immunotherapy¹ is seeking early-career individuals for an amazing opportunity to learn and practice biological data science at the highest level.

The Parker Institute is an unprecedented collaboration between the country's leading immunologists and cancer centers, including Memorial Sloan Kettering Cancer Center, Stanford Medicine, the University of California, Los Angeles, the University of California San Francisco, the University of Pennsylvania, and The University of Texas MD Anderson Cancer Center, with the mission of making cancer a curable disease. The Parker Institute network also includes more than 40 industry and nonprofit partners, more than 60 labs and more than 300 of the nation's top researchers focused on treating the deadliest cancers. The Institute was created through a \$250 million grant from The Parker Foundation.

The first 9 months of this position will be spent working on the Parker Institute informatics team in San Francisco CA. There you will learn from and working next to the biological data scientists who are leading internal and external biological data projects at PICI. The training we provide is based in a pragmatic, "hands-on" approach – you will be working on real projects in collaboration with the top labs in cancer immunotherapy² on day 1.

Upon completion of the fellowship in San Francisco you will be ready to begin your next role, as a computational scientist in the immunotherapy platform at MD Anderson Cancer Center in Houston, TX, led by Parker Investigators Jim Allison³ and Padmanee Sharma⁴. As a computational scientist, you will identify biomarkers of response and study the mechanism of action of the latest immunotherapy treatments being tested in clinical trials.

The Parker Institute is committed to bringing the most cutting edge technologies to immunotherapy research. As a Parker Data Fellow and later as a computational scientist, you will work with a wide range of data types, including data generated from CyTOF, MIBI⁵, 16S ribosomal sequencing, ATAC-seq⁶, Whole Exome Sequencing, (single cell) RNA-seq, and others.

The ideal candidate will:

- Complete their Ph.D. by start of fellowship
- Have solid data analysis abilities in R or Python
- Be experienced scripting in bash
- Have previous experience in cloud-based and/or high performance computing
- Have previous research or a strong interest in answering clinically-relevant questions in cancer biology and/or tumor immunology

Interested individuals: send a CV to careers@parkerici.org; subject line "Biological Data Fellow".

¹ <https://www.fastcompany.com/3058827/inside-sean-parkers-250-million-bet-to-cure-cancer>

² <http://www.parkerici.org/institute/members>

³ Leach et. al. Science 271 (1996); <http://time.com/collection/2017-time-100/4742750/james-allison/>

⁴ Motzer et. al. NEJM 373 (2015); http://faculty.mdanderson.org/Padmanee_Sharma/

⁵ Angelo et. al. Nat. Med. 20 (2014)

⁶ Buenrostro et. al. Nat. Methods 10 (2013)