gritstone
ONCOLOGY

POSITION DESCRIPTION

Job Title	Bioinformatics Intern
Department	Computational Sciences
Reports To	Senior Director, Bioinformatics
Location	Cambridge, MA

Position Summary:	Gritstone Oncology is a fast-growing, innovative biotechnology company developing the next generation of personalized cancer immunotherapies. Gritstone brings together distinguished scientific founders, an experienced and diverse management team, a seasoned and successful board of directors, and deep financial backing to tackle fundamental challenges at the intersection of cancer biology, immunology and immunotherapy design. The goal is to develop breakthrough immunotherapy treatments for patients with cancer by identifying and deploying neoantigens from each patient's tumor to develop personalized cancer vaccines. Gritstone Oncology is headquartered in the San Francisco Bay Area with key functions located in Pleasanton, CA and Cambridge, MA.
	Gritstone Oncology is seeking a Bioinformatics Intern to help harness the immune system to treat cancer. The intern will perform analyses of proprietary and public genomic datasets to find actionable biological insights.
	This position is a 6-month paid internship on Gritstone's bioinformatics team, beginning in July 2020. The ideal candidate is a recent graduate and an independent team player who thrives in a fast-paced, dynamic, and highly collaborative environment. This is an opportunity for to work for a well-funded early biotechnology company where bioinformatics analyses drive personalized cancer treatments.
	Responsibilities: • Develop research-grade algorithms for reproducible bioinformatics processes • Analyze internal and external data sets to generate and test hypotheses about biological mechanisms of action • Translate data into biological insights, and present and discuss results in project team meetings • Work closely with other computational and experimental scientists to design experiments
Requirements:	**Essential Qualifications:** • Recent college graduate with a B.S. in computer science, biology, or bioengineering • Experience working with large datasets, especially sequencing-based data

	• Programming experience with Python or R, including collaboratively writing and documenting code • Able to function independently, picking up new skills and investigating scientific literature as necessary • Excellent organizational and time management skills
Qualifications:	**Preferred Qualifications:** • Knowledge of cancer biology as it relates to immunotherapy development and single-cell sequencing • Understanding of genomic file data types, such as FASTQ, BAM, and VCF • Experience working with large, publicly-available datasets (e.g. GTEx, TCGA, COSMIC) • Familiarity with statistical packages and tools, dimensionality reduction, clustering, and AI/machine learning methods • Proficiency in version control, using Git or Mercurial • Experience with next-generation sequencing data analysis using workflow handlers such as Nextflow, Make, or CWL • Experience working in the cloud or on a high-performance computing cluster