



# CENTER FOR HUMAN GENETICS

## Molecular Technician for Genomic Sequencing

Vast quantities of genomic data are being generated that individually and/or in aggregate can improve almost every aspect of clinical care, enabling early accurate diagnoses and precise interventions. High-throughput genome sequencing in medicine and metagenomics, in health and disease, is undoubtedly a major driver of scientific innovation. Many rare Mendelian disorders can be cured by advances in genetic and viral engineering, while the progression of more complex age-associated complaints may be predicted and prevented. The University of Florida (UF)'s Center for Human Genetics mission is to generate molecular knowledge, decipher, disseminate, synthesize and apply it, to fundamentally improve upon the human condition. The team is collaborative, interdisciplinary and synergistic.

This Molecular Technician position is part of the UF College of Medicine's Department of Neurology and Clinical and Translational Science Institute's (CTSI) Center for Human Genetics. It is a full-time position based in the UF Pathology Laboratories or McKnight Brain Institute (MBI) and supervised by Dr. Matt Farrer-an internationally recognized neurogeneticist and genome scientist whose team has contributed extensively to many of the leading discoveries in this field. This position will focus on the study of genetic determinants of disease and will assist with genome sequencing and bioinformatic data analysis in support of several of Dr. Farrer's ongoing IRB research protocols in the areas of Adult Brain Health and Pediatric Medicine primarily. This staff member will join a team of scientists dedicated to studying the genetic etiology of neurodegeneration using a combination of population and pedigree-based molecular genetics (next-generation sequencing, genotyping and Sanger sequencing), bioinformatics (vcf tools, galaxy, python, perl, java) and applied statistics (R archive, Plink, Beagle, linkage software). The appointee will assist in the design, implementation, and validation of molecular diagnostic assays for both clinical diagnostic and translational research use and will perform genetic testing, including whole exome and whole genome analyses for the Center for Human Genetics. This position participates in the maintenance of all procedures and documents required as part of good laboratory practice including quality control and quality assurance and assists with other laboratory duties as assigned.

The University of Florida is the state's largest university with ~50,000 students, 16 academic colleges, over 150 research centers and institutes, and the largest AI supercomputer in the US. The main campus in Gainesville, also known as the 'Tree city' given its extensive arboral forests, is a ~1.5 hour drive from the beach and 2 hours to several major cities including Tampa, Jacksonville, and Orlando. Gainesville boasts 8 state parks, more than 100 miles of trails for biking, birding and hiking, and numerous freshwater springs and rivers. Its warm climate, exotic location, and wildlife, make it a destination for nature enthusiasts. UF is a top-tier research institution which ranked 7th (tied) among the nation's top public universities and #34 among all universities (U.S. News & World Report 2020). UF Health is Florida's premier healthcare system.



For more information about the position email Dr. Rebecca Lazensky at:

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