

We are looking for a part-time research assistant for ~ 12 months (starting June 15<sup>th</sup>) to help with an exciting research project to characterize gene candidates for muscle fitness and linking these to cardiometabolic health. The knowledge this project generates is important to understand the biological link between muscle fitness and health, and to inform drug target discovery.

### **About our lab**

The fundamental theme of work in the Knowles lab is the application of genetics to improve human health. We are situated in the Falk Cardiovascular Research Building on Stanford campus. You can find more information about us here:

<https://med.stanford.edu/knowleslab.html>.

### **The position**

You will join the team of highly skilled and motivated post-doctoral fellows, technicians and faculty members who apply basic translational efforts to understand the basis of insulin resistance and related cardiovascular traits. The job description includes maintaining cell cultures of skeletal muscle cells, induce gene knockdown through genome editing (through CRISPRi) and overexpression. Functional read-outs will include assessing glucose uptake, mitochondrial function, glycogen storage etc in the gene-edited cell models. You will also perform data analysis (e.g. Excel, R, GraphPad Prism), and generate high quality figures and first drafts of the Methods and Results section for publication.

You should expect to work around 20 hours/week. Priority will be given to applicants who can commit to a 12-months period. During the first months in this position, you will receive training in lab safety and relevant molecular biology techniques. You will also learn about the scientific background of the project. After these initial trainings, you will lead the project as maternity cover independently with supervision of postdoctoral fellows, technicians, and faculty members.

### **Qualifications**

At least a BA.

You are a team player and have a high degree of flexibility when experiments do not go the way as expected and planned. The ideal candidate has experience in standard molecular biology techniques including cell culture, PCR, cloning, FACS analysis, microscopy, Western blots, and functional assays of a skeletal muscle cell model. You have a natural interest in project management and the commitment required to succeed and the drive to advance this project.

### **Interested?**

Please send your CV and a short summary describing your motivation to Theresia Schnurr ([schnurr@stanford.edu](mailto:schnurr@stanford.edu)).

### **Contact**

For more information, please contact Visiting Scholar Theresia Schnurr ([schnurr@stanford.edu](mailto:schnurr@stanford.edu)) or Professor Joshua Knowles ([knowlej@stanford.edu](mailto:knowlej@stanford.edu)).

### **Deadline**

We conduct interviews on an on-going basis and aim to fill the position as soon as possible.