Research Opportunity

Preceptor Name:  W. Jim Zheng
Campus: Houston/School of Biomedical Informatics

Overall grant or other program name:  Genomic variations and drug targets

Briefly describe your overall research program:
We try to identify the impact of genomic variations on drug-target interactions using bioinformatics and data mining approach. Specifically, we will identify important genetic variations and use structural bioinformatics approach to assess how these variations will influence the binding of the drug to its target.

Name of specific project in which a student will participate:
Genomic variations and drug action

Specific duties of student:
1) Gather and extract genomic variations information from public databases
2) Analyze genomic variations information
3) Gather structural information of drug targets
4) Analyze how the genomic variations will impact drug-target interaction

This would be a good fit for someone with what major or interests?

This project will be good for students whose formal training is in computer science, statistics or bioinformatics/computational biology

Students begin June 2 (orientation day) and end either July 25 or August 8.
If you will be out for a week or more during this time, when would you be gone?

I will be out from June 11 to June 25. However, I have several postdoctoral fellows who are knowledgeable and independent. They can serve as a mentor in my place when I am away

Who would serve as preceptor during your absence (name and credentials, please)?

Dr. Ryan Brenke, postdoctoral fellow, Dr. Guocai Chen, Postdoctoral fellow

NB: you may submit as many research opportunities as you like, but to be competitive you should probably limit yourself to no more than three.

E-mail your finished form(s) to cpritsummer@uth.tmc.edu