UNIVERSITY OF LOUISIANA Lafayette

STAFF VACANCY

POSITION: Research Associate

RESPONSIBILITIES: Optimize enzymatic reactions using molecular dynamic and quantum mechanical approaches. The candidate would work in the following bioinformatics area:

- *Protein analysis for the active sites of dehydrogenase sequences* -

  Identify the most conserved regions that are likely involved in the enzyme activity using ClustalW or other protein alignment software. The 3D structure information with the results from protein alignment is used to investigate the conserved active site and surrounding regions.

- *Optimize enzymatic reactions catalyzed using molecular dynamic and quantum mechanical approaches*-

  The candidate enzymes with the high binding score will be further analyzed by a combination of molecular dynamic and quantum mechanical analyses. An interested candidate in this area should have experience with quantum chemistry theories. Prior experience in quantum chemistry is not necessary, given strong skills in theoretical chemistry.

QUALIFICATIONS: Minimum Ph.D. in Chemical Engineering or closely related field (Chemistry, Physics, Biotechnology, Biology)

SALARY: Dependent upon qualifications and experience.

APPLICATIONS: Interested candidates should send a resume and list of three references to:

Prof. Yen-Shan (Amy) Liu
Dept. of Chemical Engineering
PO Box 44130,
Lafayette, LA 70504

OR by e-mail to YSL@louisianan.edu

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