Postdoctoral Researcher Position  
Catalysis Center for Energy Innovation

Position Description
The Catalysis Center for Energy Innovation (CCEI) is accepting applications for a postdoctoral position to work on the development and modeling of innovative catalytic technologies for the efficient utilization of biomass. Specifically, the researcher will focus on the molecular modeling of biomass molecules in zeolites and solution.

Qualifications
- Ph.D. in chemical engineering.
- Strong computer programming experience using FORTRAN, C/C++, MATLAB and UNIX shell script and high-performance parallel computing.
- Extensive skills using molecular simulation techniques (molecular dynamics, Monte Carlo) and solvation modeling to understand the separation of complex molecules from solution in microporous media.

Major Job Functions
- Develop and apply multiscale computational models (DFT, MD/MC, QM/MM, solvation thermodynamic models, etc.) to chemical engineering and energy-related problems.
- Design and develop new capabilities within in-house software.
- Carry out independent, innovative research.
- Perform other job-related duties as assigned.
- Work independently and collaboratively as part of the CCEI team.

To Apply
Please submit the following items to efrc-info@udel.edu:
- Complete CV.
- Date of availability and duration.
- Future job plans.
- Arrange for 3 references to send letters directly to efrc-info@udel.edu.

This position is open until filled.

Equal Employment Opportunity
Employment offers will be conditioned upon successful completion of a criminal background check. A conviction will not necessarily exclude you from employment.

The University of Delaware is an Equal Opportunity Employer which encourages applications from Minority Group Members, Women, Individuals with Disabilities and Veterans. The University's Notice of Non-Discrimination can be found at http://www.udel.edu/aboutus/legalnotices.html