



**COLLEGE OF ENGINEERING**  
THE UNIVERSITY OF TOLEDO

**Postdoctoral Research Associate (Stable Glass-Ceramic Nanocomposites as Compliant Seals for SOFCs)**

**APPLICATION SCREENING IN PROGRESS!**

The appointment will be for a period of 9 months, beginning **March 2012**.

Requirements: A PhD within last 3-5 years in Materials Engineering, Ceramic Engineering or Chemical Engineering with strong background in materials synthesis, processing and SOFC characterization together with exceptional hands-on experience with TEM, SEM and XPS among others, of ceramic nanomaterials and nano composites.

Responsibilities involve:

1. Synthesis and processing of ceramics and their nano composites with glass,
2. Thorough structural, microstructural and surface characterization of the above formulations,
3. Designing and conducting sealing experiments with button SOFCs for extended period of time and, data analysis and interpretation,
4. Coordinating with the industrial partners to optimize the composition, properties and performance of the composite,
5. Working independently in formulating experiments and carrying them out successfully in the given time-frames and,
6. Writing periodic activity reports.

Must have excellent written and oral communication skills and, peer-reviewed publications to demonstrate the capability to undertake the proposed research. Salary commensurate with experience and educational background. Applications only with expertise in SOFC area will be considered.

Please send your letter of interest, CV and list of publications and, arrange for three letters of recommendation to:

Prof. Abdul-Majeed Azad  
Chemical Engineering Department  
3052 Nitschke Hall  
The University of Toledo  
2801 W. Bancroft St.  
Toledo, OH 43606-3390.  
419.530.8103  
[abdul-majeed.azad@utoledo.edu](mailto:abdul-majeed.azad@utoledo.edu)