Announcement of Post Doc position

Title: Post Doctoral Research Fellow
Location: SLAC National Accelerator Laboratory
Review Date: The review of applications will begin in January 2020 and continue until the position is filled.

Job description:
A Post-Doctoral position in computational catalysis available immediately. The project is mainly to perform Kinetics and Interface modeling related to efficiency and product selection of electrochemical CO$_2$ reduction (CO$_2$R) and related reactions. The project is a joint collaboration (20+ people), Cooperative Research and Development Agreement (CRADA), between TOTAL, SLAC, LLNL, and Stanford and generously funded by TOTAL to enable commercial realization of the CO$_2$R to valuable products and chemicals. The position is at the SUNCAT Center for Interface Science and Catalysis at SLAC National Acceleratory Laboratory in Menlo Park, California, USA. The appointment is for 1 year with a possible extension of 1 year (1+1) based on successful productivity.

Job requirements:
The ideal candidate should have a PhD in Chemical Engineering, Chemistry or Physics within the past 3 years and possess a detailed understanding of the modeling of surfaces within density functional theory and its application in heterogeneous catalysis. Mid- to high-level programming skills are necessary to run the DFT and micro-Kinetics codes, which will couple to the fluid dynamics-solvation simulations at the interface. Attention to high-accuracy computation and familiarity with VASPsol, DFT/ESM-RISM method, JDFTx, Environ or similar and/or Comsol codes is highly desirable. The applicant is required to have good team skills, and should possess the ability to handle and monitor several projects at the same time. Oral, written and graphical competency in the English language is essential.

Applications:
Individuals wishing to apply should provide the following:

- Letter of application that states the applicant’s interest in the position and description of qualifications based on the credentials listed above.
- A curriculum vitae
- List of publications
- Contact information for 2-3 references

SLAC Contact Information:
Staff Scientist, Dr. Michal Bajdich, bajdich@slac.stanford.edu or
Co-Director of SUNCAT: Dr. Frank Abild-Pedersen Email: abild@slac.stanford.edu
SUNCAT Center for Interface Science and Catalysis, Chemical Science, SLAC National Accelerator Laboratory, 2575 Sand Hill Road MS31, Menlo Park, CA 94025, USA