

## Post-Doc and Staff Engineer Positions in CFD and Mesh Generation

July 10, 2014

Applications are invited for post-doctoral fellows or staff engineers at Electrochemical Engine Center (ECEC) in the field of large-scale computations for fuel cell and battery devices. We are looking for talented, ambitious, and hard-working candidates, especially those with experience in the automotive industry. Required Qualifications:

- Ph.D. in Mechanical Engineering, Chemical Engineering, or related fields
- Strong prior experience in CFD
- Strong skills in CFD mesh generation in complex geometries, and parallel computing
- Development of advanced algorithms for problems involving very large mesh (tens and hundreds million)
- Good communication skills and the ability to work in a team environment
- Ability to work independently to solve critical problems
- Proficient with C, C++, and FORTRAN
- Experience in OpenFOAM or other open source CFD codes is preferred

These positions are immediately available.

The ECEC, directed by Prof. Chao-Yang Wang, is a multi-disciplinary research program concentrating on understanding and developing advanced batteries and fuel cells for vehicle electrification, renewable energy storage, and power grid management. The group usually has 12 research associates, 3 visiting scholars, and 14 Ph.D students with specialties in electrochemistry, materials, manufacturing, diagnostics, CFD modeling, and system engineering. The center has extensive computational and experimental facilities, including a recently installed large format Li-ion cell fabrication facility believed to be the first among US universities. Please see <http://mtr11.mne.psu.edu/> for more details on the Electrochemical Engine Center. To apply for the positions, please send a detailed resume to Prof. Chao-Yang Wang at [cxw31@psu.edu](mailto:cxw31@psu.edu). Due to a large number of applications expected, only most qualified applicants for these positions will be contacted.