

## Postdoc Positions in large-scale CFD

April 23, 2022

Applications are invited for post-doctoral fellows at Electrochemical Engine Center (ECEC) in the field of large-scale computations for fuel cells and batteries. We are looking for talented, ambitious, and hard-working candidates, especially those with experience in fluid mechanics, heat transfer, and combustion. Required Qualifications:

- Ph.D. in Mechanical Engineering, Chemical Engineering, or related fields
- Strong prior experience in CFD
- Strong skills in CFD for 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

These positions are immediately available.

The ECEC, directed by Prof. Chao-Yang Wang, is a multi-disciplinary research program concentrating on advanced batteries and fuel cells for vehicle electrification, renewable energy storage, and power grids. The group is known for cross-fertilization of electrochemistry, materials, manufacturing, diagnostics, CFD modeling, and system engineering. The center has extensive computational and experimental facilities. Please see <http://ecec.me.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.