

Postdoctoral Position: Computational Plasma/Gas/Fluid Dynamics

Applications are invited for an open postdoctoral fellow position at Department of Aerospace and Ocean Engineering, Virginia Tech in the general area of computational plasma physics, computational gas dynamics, or computational fluid dynamics. The successful candidate will participate in developing and applying particle simulation algorithms on parallel supercomputers for large scale simulations related to advanced space propulsion, dusty plasmas, and bio-nano-fluidics devices.

A recent Ph.D in aerospace engineering, electric engineering, or plasma physics is required. An excellent understanding of general physics and excellent programming skills using C and/or Fortran 90 are essential. Knowledge of kinetic theory, plasma physics, and working experiences in particle-in-cell codes, DSMC codes, or CFD codes are desired. Parallel programming experience would be a plus.

Applicants should email curriculum vitae and a list of four references to Prof. Joseph Wang at jowang@vt.edu