

Post-Doctoral Research Fellow  
Computational low temperature plasmas and high-Mach number flows  
University of Illinois

A post-doctoral research fellow position in computational low temperature plasmas and high-Mach number flows is available in the research group of Prof. Deborah A. Levin at the University of Illinois, Urbana-Champaign USA in the department of Aerospace Engineering. The postdoctoral fellow will typically work on two-projects in the area of particle-in-cell (PIC) simulations, some coupled with direct simulation Monte Carlo (DSMC). Examples of applications include electric propulsion devices and facility effects, inclusion of plasma chemistry models for both plasma processing and high-Mach number reentry flows, two-phase flows including dusty plasmas, and high-Mach number plasma sheath-boundary layer interactions. The position requires knowledge of high performance, massively parallel computing and knowledge of GPUs is helpful. The post-doc will interact with research students and other members of the group as well as assist in proposal preparation.

More information about recent publications may be found at:

<https://aerospace.illinois.edu/directory/profile/deblevin>

The initial appointment period is 1 year with reappointment for 2 or 3 years subject to performance and availability of funds. Applicants should send a CV, indicating available start date, recent publications, and contact information for 3 references to [deblevin@illinois.edu](mailto:deblevin@illinois.edu).