Postdoctoral Research Associate in Hypersonics
Center for Hypersonics and Entry Systems Studies (CHESS)
University of Illinois at Urbana-Champaign

Aerospace Engineering in The Grainger College of Engineering at the University of Illinois seeks qualified candidates for Postdoctoral Research Associate positions in Hypersonic Aerothermodynamics. Successful candidates will join a large effort on experimental, theoretical and numerical research in high-temperature materials for hypersonic systems, including airbreathing and boost-glide vehicles, ballistic re-entry vehicles and planetary exploration entry systems. Successful candidates will become fellows of the Center for Hypersonics and Entry Systems Studies (CHESS, https://www.chess.aerospace.illinois.edu/) at the University of Illinois, joining a vibrant, multidisciplinary workforce that aspires to revolutionize hypersonic research. We are looking for highly motivated individuals who will rapidly integrate into our collaborative and dynamic research teams within a supportive atmosphere and a strong intellectual environment.

The University of Illinois is an Equal Opportunity, Affirmative Action employer. Minorities, women, veterans and individuals with disabilities are encouraged to apply. For more information, visit http://go.illinois.edu/EEO.

Required qualifications include:

- A Ph.D. in Aerospace or Mechanical Engineering, Material Science, or Computer Science. Per University policy, eligible candidates must have obtained their Ph.D. degree within 10 years of the start date of the position.
- Work well in a multidisciplinary research team and have strong verbal and written communication skills.
- For positions in experimental research, prior experience with high-temperature materials, plasmas, laser and optical diagnostics, data acquisition systems and advanced characterization techniques are preferred.
- For positions in numerical research, prior experience with high performance computing (HPC) and advanced programming skills in C++, python, and Fortran are preferred.
- U.S. citizenship or permanent residency status preferred.

The Postdoctoral Research Associate is a full-time, benefits-eligible position appointed on a 12-month service basis. The initial appointment is for one year with the possibility of extension based on performance and funding.

This position is available immediately, but the start date is negotiable. Salary will be commensurate with experience and qualifications.

To apply for this position, please submit a cover letter, curriculum vitae, and names/contact information for three references to Dr. Marco Panesi at mpanesi@illinios.edu, Dr. Kelly Stephani at ksteph@illinois.edu and Dr. Francesco Panerai at fpanerai@illinois.edu. Please include “Postdoctoral Research Associate – CHESS” in the subject line of the email. Full consideration will be given to complete applications received until the position is filled.

The University of Illinois conducts criminal background checks on all job candidates upon acceptance of a contingent offer. As a qualifying federal contractor, the University of Illinois System uses E-Verify to verify employment eligibility. The University of Illinois must also comply with applicable federal export control laws and regulations and, as such, reserves the right to employ restricted party screening procedures for applicants.