Open Positions: Postdoctoral Research Fellow

Multi-physics Modeling and Simulation of Hypersonic Vehicle Systems

The Center for Hypersonics and Entry Systems Studies (CHESS) at the University of Illinois at Urbana-Champaign seeks outstanding candidates for **postdoctoral research fellowships to model and simulate the multi-physics environment of hypersonic vehicles and their subsystems**. The successful candidates will take leadership of externally funded projects to develop, implement, and run computational models on leadership-class supercomputers to simulate the fluid dynamics, aerothermodynamics, radiation, thermal-mechanical response, and ablation present in the external and internal flow paths of hypersonic vehicles. The positions are open immediately and supported for multiple years, renewed annually.

**Necessary Qualifications:**

1. Ph.D. in Aerospace Engineering, Mechanical Engineering, Theoretical Mechanics, Physics, Applied Mathematics or a related science and engineering field.

2. Prior experience with computational fluid dynamics, computational structural dynamics, and/or material response codes.

**Applications:**

Applicants should send a CV with a cover letter, the names of at least two references, and a summary of recent work and interests as a single PDF document to: Professor Daniel J. Bodony, bodony@illinois.edu

More information about the CHESS Group and its associated research and people can be found at [https://chess.grainger.illinois.edu/](https://chess.grainger.illinois.edu/). The successful applicant will join an active and vibrant community of hypersonics-focused world-leading researchers and facilities on the UIUC campus. Remote appointments may be considered in exceptional cases.

*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](http://go.illinois.edu/EEO).*

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