Open Position: Postdoctoral Research Fellow
University of Illinois Aeroacoustics and Flow Physics Group

Data-informed Model Reduction for Control of Fluid-Thermal-Structure Interaction

The University of Illinois at Urbana-Champaign seeks outstanding candidates for a postdoctoral research fellowship to perform aeroelastic instability detection and suppression in UAV propulsion systems. The successful candidate will simulate and develop data-informed reduced-order models for the unsteady, turbulent flow interacting with the compliant blades of the compressor and turbine components of a turbomachine to understand, predict and control resonances caused by the fluid-thermal-structural interaction. The position is open immediately.

**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 conjugate heat transfer 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: Daniel J. Bodony, bodony@illinois.edu

More information about the Aeroacoustics and Flow Physics Group and its associated research and people can be found at http://acoustics.ae.illinois.edu.

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.