Research Position Available in Computational Fluid Dynamics and Heat Transfer

The Ohio State University Simulation Innovation and Modeling Center (SIMCenter) is seeking highly-motivated researchers to join our organization at all levels of experience. Applicants are expected to have experience applying computational methods; applying computational methods to solve applied problems; working with industry; writing reports, presentations, technical publications, and proposals; and presenting technical material to sponsors or at conferences. These positions are expected to be two-year appointments. The candidates must have earned a PhD in Mechanical or Aerospace Engineering. Successful candidates will be considered for long-term employment within SIMCenter or with academic departments.

Required Skills:

- Expertise in the area of computational fluid dynamics and heat transfer
- Extended experience with CFD in automotive or aerospace applications
- Proficient with ANSYS FLUENT or StarCCM+
- Proficient with CATIA or SolidWorks to generate/modify assembly models
- Experience with meshing and preprocessing software such as ANSA or Hypermesh
- Working knowledge of C++ and other programming languages such as Matlab
- Working knowledge of Linux/Unix is highly desirable

About SIMCenter:

The SIMCenter is a newly formed interdisciplinary research center for the virtual simulation and modeling of product performance and manufacturing processes in the College of Engineering. The SIMCenter researches and applies computer-aided engineering techniques to the design and manufacturing of advanced product and production concepts. Located in Smith Laboratory, the SIMCenter combines expertise from several College of Engineering departments, including mechanical, aerospace, electrical, industrial, materials science, computer science, and Integrated Systems and partnership with Ohio Supercomputer Center.

Detailed Job Description:

- Conducts applied and fundamental research in the areas of CFD, heat transfer and computational aeroacoustics
- Develops and maintains competency in commercial computational fluid dynamics software packages
- Trains students and staff on the appropriate usage of simulation packages
- Assists in the development of reports, research articles and presentations for publications and for research sponsors
- Assists in the development of research proposals

For More Information:

Send a cover letter and CV to simcenter@osu.edu with “Computational Fluid Dynamics and Heat Transfer” as the subject. First consideration of applications will begin in February 2015.