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**Hypersonic Computational Fluid Dynamics Engineer**

ISSI seeks a highly motivated individual for a Computational Fluid Dynamics (CFD) position on our scramjet engine research and development team in Dayton, OH. Our team is responsible for developing and testing scramjet engines and their sub-components at Wright-Patterson Air Force Base, OH. Full-time or postdoc positions are available.

US citizenship required.

**Role & Responsibilities:**

As a CFD Application Engineer for ISSI, you will:

- Perform validation engineering tasks including setting up simulation cases, managing runs and output data, processing and analyzing results, writing up analyses, and preparing presentations;
- Contribute to the development of simulation-based solutions that solve practical problems;
- Work closely with other members of our computational propulsion team;
- Interact with the experimental teams to develop and test new/existing designs; and
- Be a member of a cohesive and highly collaborative group with a clear mission to develop novel ideas.

**Essential Requirements**

We seek candidates with the following qualifications:

- MS or PhD in Aerospace Engineering, Mechanical Engineering, or related field
- 3-5 years of academic and/or industry experience using Computational Fluid Dynamics (CFD)
- Strong background in fluid mechanics and CFD including complex (multi-component/multi-phase) fluids, particularly compressible flow physics
- Strong knowledge in combustion and turbulence modeling
- Experience with RANS, LES, or hybrid RANS-LES methods
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- Expertise in either commercial solvers or programming languages used for high performance computing (Fortran, C, C++, Python)
- Self-starter, motivated, strong work ethic, ability to thrive in fast-paced environment.
- Strong English communication skills
- Excellent problem-solving skills, well organized
- Ability to apply his/her talents cooperatively as part of a team of professionals
- U.S. citizen
- Able to obtain secret clearance

How to Apply

Questions and/or resumes/CV’s can be directed to Dr. Tim Gallagher, tgallagher@innssi.com

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