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Fluid Structure Interaction Engineer

Job Title:

Fluid Structure Interaction Engineer

Location:

Seattle Washington, USA

About the position:

CD-adapco is looking for a highly qualified and motivated individual to contribute to the development of our next-generation CFD/CAE tool STAR-CCM+. The successful candidate will be expected to contribute to the architecture and design of the product as well as develop end-user enhancements. The specific area of focus will be the development of tools to support stress analysis for coupled fluid flow, heat transfer and thermal stress as well as fully coupled fluid structure interaction (FSI).

This position will be at the CD-adapco office in the Bellevue, WA near Seattle. US citizenship or Green Card holder is preferred for ITAR and US government related projects.

Job Requirements:

PhD or equivalent degree in Civil, Mechanical or Aerospace Engineering

- A minimum of 15 years of experience in the application of multi-physics CFD in heat transfer
- Experience in the development of computational mechanics tools to support FSI
- Experience in the application of both CFD and FEA.
- Excellent communication skills
- Excellent mathematical skills
- Ability to work as part of a team to meet project goals

In addition, we prefer experience in one or more of the following areas is desired:

- ABAQUS CAE, Explicit, and Standard
- NASTRAN MSC or NX-7
- Experience with software development in C++
- Dynamic mesh motion strategies such as ALE and mesh morphing
- Development in Java or Python
- Co-simulation between independent applications (such as MpCCI)

CD-adapco is an equal opportunity employer and does not discriminate on the basis of race, religion, color, sex, age, physical or mental disability, national origin, genetic information, or any other basis covered by appropriate law. All employment is decided on the basis of qualifications, merit and business need.

If you are an individual with a disability and would like to contact us regarding the accessibility of our site, need assistance completing the application process or would like to request a reasonable accommodation, please contact the Human Resources Manager at hr-us@cd-adapco.com [1] .

About CD-adapco

CD-adapco is the world's largest independent CFD focused provider of engineering simulation software, support and services. We have over 30 years of experience in delivering industrial strength engineering simulation. The scope of our activities extends well beyond software development to encompass a wide range of CAE engineering services in both CFD and FEA.

We have over 7,000 users of our software, working at 3,000 different companies, spending over \$100 million on our software and services. Our customer approval ratings are very high; in our last customer survey 93% of our customers declared themselves satisfied, or very satisfied with our software and services, a fact reflected in a consistently high customer retention rate.

Consistently growing at an organic rate of over 17% per year, CD-adapco employs over 700 talented individuals, working at 21 offices around the globe, involved in dedicated support, software development and engineering services.

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