

Computational Aeroacoustics Engineer



Introduction:

Exa Corporation seeks highly motivated individuals for CFD engineering positions within the Aeroacoustics team. This group is responsible for developing and deploying PowerFLOW simulation methodologies for aeroacoustics applications including vehicle wind noise, vehicle buffeting, and HVAC noise. Opportunities are possible in the San Francisco, Detroit, or Boston office locations.

Role & Responsibilities:

As a Computational Aeroacoustics Engineer you will:

- Be responsible for simulation methodology development and detailed validation studies that compare PowerFLOW simulation results to experimental test data.
- Carry out general validation engineering tasks including setting up simulation cases, administering the runs, collecting and analyzing results, carrying out technical research, writing up analyses, and preparing presentations of results.
- Collaborate with the field teams to deploy aeroacoustics applications in customer projects for both accuracy validation and productive use demonstration.
- Interact with the development team for product testing of new capabilities, and development of prototypes for new or enhanced functionality.
- Be a member of a cohesive and highly collaborative group whose mission is to develop and deploy industry-leading solutions for an expanding range of aeroacoustics applications.

Requirements:

- MS. or Ph.D. in Mechanical Engineering, Aerospace Engineering, or related field.
- 1-3 years of academic research and/or industry experience.
- Solid knowledge of fluid dynamics fundamentals.
- Background in aerodynamics / aeroacoustics (knowledge of automotive is a plus).
- CFD / CAA Experience.
- Strong oral communication skills in English and good presentation skills.
- Excellent problem-solving and organizational skills.
- Script programming ability and unix/linux skills.
- Experience with complex graphics tools is a plus.
- Willing to travel occasionally.

Company Background:

Exa Corporation develops and markets software for design engineers to analyze complex fluid-flow problems, and software to prepare geometry for use in a variety of analysis tools. The company's PowerFLOW® and PowerCLAY® products are marketed to engineers worldwide in a range of industries including automotive, aerospace, chemical, energy, architectural, and environmental. PowerFLOW is a breakthrough technology that is unique among computational fluid dynamics (CFD) packages in its ability to handle complex geometry and deliver accurate fluid-flow analysis at a fraction of the total cost of other available solutions. PowerCLAY is a powerful geometry design tool for CAE mesh preprocessing that provides sophisticated mesh deformation capabilities. Both PowerFLOW and PowerCLAY allow customers to shrink design cycles by incorporating quick turnaround analysis throughout the design cycle.

For immediate consideration, please send your resume to:

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