



Simulation Analyst / Computer-Aided Engineering (CAE) Entry Professional

Job Description:

As a Simulation Analyst / CAE Engineer at SmartUQ, you will support the Applications Engineering team by investigating use cases for advanced analytics across a wide variety of engineering fields with an initial focus on aerospace and turbine engines. As an essential part of our research and customer outreach efforts, you will develop and run simulations to demonstrate use cases and SmartUQ capabilities. You will work closely with the rest of the team to turn conceptual applications of uncertainty quantification into demonstrable, robust use cases and interact with Software Engineers and Data Scientists to identify practical, high impact applications of SmartUQ's statistical methodology.

Who We Are:

SmartUQ (SmartUQ.com) develops uncertainty quantification and analytics software to solve difficult challenges and accelerate innovation in a wide range of engineering fields. Our software is used by some of the largest engineering companies in the world. We have a fun and focused team who are passionate about helping our customers solve challenging problems where no off-the-shelf solutions exist.

Location:

You'll find us near the UW-Madison campus on University Avenue next to the Hilldale Shopping Center.

Responsibilities:

- Use advanced simulation software packages such as ANSYS, COMSOL Multiphysics, and MSC Adams or Nastran to perform a wide array of analyses including CFD, Structural FEA, and Multibody Dynamics
- Identify, create, and benchmark simulation modeling examples
- Responsible for engineering aspects of consulting projects as assigned
- Demonstrate our software solutions, both in person and remotely to customers
- Actively support customers to ensure they are receiving optimal results in their complex design challenges, and troubleshoot any issues they may have with implementation or use of the software
- Give technical presentations at events and adequately answer complex questions relating to the software and its application, features, and capabilities.
- Engage prospective customers using engineering knowledge and expertise

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www.SmartUQ.com



Qualifications:

- Bachelor's or Master's Degree in Mechanical Engineering, Engineering Mechanics, Aerospace Engineering, Engineering Physics, or related field
- Entry Level Position: 0-2 yrs. industry experience, Internship and Co-op experiences preferred
- Broad knowledge of engineering principles (e.g. fluid dynamics, heat transfer, and structural mechanics)
- Experience working with CFD/FEA packages required. ANSYS Workbench, COMSOL Multiphysics, or MSC Adams or Nastran are preferred
- Understanding of multibody dynamics and working knowledge of multibody dynamics simulation software is preferred
- Demonstrated understanding of aerodynamics, aerospace propulsion systems, or internal combustion engines is preferred
- Demonstrated understanding of statistics, data analytics, uncertainty quantification or related topics is a plus

If you feel that you would be a good fit for our team, join us today and submit your cover letter and resume to [hiring@smartuq.com](mailto: hiring@smartuq.com) with "Simulation Analyst" in the subject line of your email.