



SENIOR FAN DESIGN ENGINEER

JOB SUMMARY:

PAX Scientific (www.paxscientific.com), a pioneer and leader in the engineering field of biomimicry - adapting nature's design efficiencies to technology, is a rapidly growing company seeking a dynamic, well-rounded Sr. Design Engineer to investigate the application of a major advance in fluid dynamics to developing commercial and industrial air handling products.

Specifically, the Design Engineer will develop design solutions for fans and other fluid handling equipment using CAD, computational fluid dynamic (CFD) simulations, and experimental methodologies. The engineer will be responsible for CAD design, generating CFD meshes, configuring and running CFD simulations, analyzing outputs of simulations, presenting the data, drawing conclusions, defining and running test protocols, developing test equipment and processes, and making recommendations for design solutions.

Additional responsibilities will include designing and coordinating experiments to validate simulation results. The design engineer can expect to become well versed in the application of CFD to product design, and will have access to powerful computing and software tools.

ESSENTIAL FUNCTIONS:

- Combine knowledge and experience developing air handling solutions with PAX Scientific's innovative biomimetic design approach to develop and optimize best in class commercial and industrial air handling equipment.
- Implement in conjunction with the PAX core research team a parametric design approach to developing fans.
- Use computer aided design (CAD – SolidWorks) to design geometries.
- Use computational fluid dynamics (CFD – Fluent, Acusim) to simulate and analyze flow.
- Use LabVIEW to develop test platforms.
- Document designs, test procedures, analysis, results, and conclusions.
- Experimentally validate simulation results.
- Present analysis and recommendations to the development team.

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QUALIFICATIONS:

- A self-starting, positive, can-do attitude and willingness to work as a team player are essential.
- Master's degree in mechanical or aeronautical engineering with a focus on fluid dynamics.
- 5+ years experience designing air moving equipment.
- Proficiency with commercial CFD and CAD software tools (Fluent, Acusim, SolidWorks preferred). 5+ years industry experience simulating rotating machinery.
- Experience with data acquisition techniques using LabVIEW.
- Experience with AMCA standards for all aspects of fan testing (e.g. flow, acoustics, etc.)
- Familiarity with basic signal processing techniques.
- Experience with statistics and experimental methods and standards.
- Excellent verbal and written communication skills.
- Demonstrated ability to manage multiple projects and accomplish goals within a defined schedule.

Individuals interested in being considered for this opportunity are invited to email a resume and cover letter to Sharon Smith at Sharon@thehrmatrix.com. All replies will be handled promptly and professionally.

PAX is an equal opportunity employer.