

AVX Aircraft Company

Job Description



Job title: UAS Rotor Design Engineer

Work Location: 6310 Southwest Blvd, Benbrook, TX 76109

Division/Department: Engineering

Reports to: UAS Chief Engineer

AVX background: AVX has built a powerful brand and we are developing a market leading vertical takeoff and landing (VTOL) unmanned aircraft system (UAS). We are adding to our world-class team to develop this new UAS product.

Full Time Employment

Monday – Friday (hybrid office/home work schedule)

Exempt Employee

Essential Duties and Responsibilities:

AVX Aircraft seeks an experienced Rotor System Design Engineer. The candidate will be a self-starter with experience in rotor and blade design and analysis. This position involves creation of parts and assemblies utilizing standard FEA software as well as typical analytical methods for VTOL rotor systems including hubs, blades, swashplates, bearings, and pitch control components. The candidate should have expertise in rotor design methodology and be capable of utilizing analysis results to provide initial component sizing, final detail design, and design improvements.

The successful candidate will perform tasks in all phases of rotor design, analysis and test including:

- UAS Rotor Design (Including blades, grips, hubs, rotating controls and non-rotating controls)
- Blade design experience ideally including helicopter rotor, prop-rotor and propeller design familiarity.
- Structural Test Support
- Basic Structural Analysis
- Design for Manufacturing
- Supplier Management
- Knowledge of other UAS systems such as structures and transmission design desired
- ANSYS structural analysis software
- Industry standards for UAS and VTOL air vehicle rotor system design/analysis practices, loads, and allowables
- Familiarity with existing UAS and VTOL air vehicle rotor systems

Education and/or Work Experience Requirements:

BS/MS in Mechanical/Aeronautical Engineering, or related technical discipline, from an accredited institution. Minimum of 5 years of experience, and a working knowledge in:

- 3-D Solid modelling experience
- Surfacing experience
- Fundamental knowledge of Metallic and Composite Stress analysis
- Familiarity with military structural qualification standards
- Ability to work independently with minimal supervision
- Ability to meet aggressive program schedules with positive attitude, working well with other team members
- Knowledge of other UAS systems such as wings, drives and transmission design desired

Physical Requirements:

- Ability to safely and successfully perform the essential job functions consistent with ADA, FMLA, and other federal, state, and local standards, including meeting qualitative and/or quantitative productivity standards.
- Ability to maintain regular attendance consistent with the ADA, FMLA and other federal, state, and local standards
- Strong communication skills both in person, on the phone, and in virtual settings

