Engineer/Senior Engineer, Mechanical Group

Antennas For Communications (AFC) is seeking applications for one full-time Engineer/Senior Engineer position in Mechanical Engineering Group at their facility in Ocala, Florida.

Requirements:

Applicant shall have a Graduate Degree in the field of Mechanical/Structural Engineering. Ph.D in this field is desirable, but not required. He/she must be a United States Citizen and should be willing to move/relocate to Ocala, Florida.

Job Description:

The ideal candidate for this position should have design and practical experience in the area of:

- Structural designing and development of finite element models, and analysis by using finite element analysis (FEA) technique.
- Interpretation of FEA results, making recommendations, and writing analysis reports.
- Optimization of designs using FEA results.
- Creation and modification of 3D solid models by using 3D-CAD software. Experience with Autodesk Inventor is desirable.
- In-depth understanding of mechanics as well as finite element analysis theory
- In-depth understanding of material properties, material testing and verification for various material types. Familiarity with composite materials is desirable.
- Structural analysis for linear/nonlinear problems. Familiarity with computational fluid dynamics (CFD) is desirable for analyzing fluid-structure interactions.
- Understanding of vibration/seismic, buckling and thermal analysis
- Strong analytical and problem-solving skills
- Highly conversant with using Matlab/Mathematica as well as ability to understand and develop programming code.
- Adequate electrical engineering knowledge to communicate with the Electromagnetic Engineering Group as well as electricians.
- Technical support of manufacturing/QC/CAD department and continuous product improvement. Familiarity with composite material fabrication techniques is desirable.
- Technical support of field installation/operational activities. Familiarity with civil and construction is desirable.
- Have social skills to be able to work in a small business environment.
- Be able to clear background check with no prior convictions or arrests.
- Past experience with any DoD projects is desirable.

Job Responsibilities:

This person will report directly to the Vice President, Mechanical Engineering. He/she is responsible for performing finite element analysis (FEA) to support the design and development of our products. He/she will work closely with other engineers and each department manager to ensure that our products meet the required safety, performance, and reliability standards. He/she should be self-motivated, computer literate, and be able to use CAD/FEA analysis tools as well as be able to create their own computer programs. She/he must be a skilled writer and must be able to use computer word processing tools.

The applicant will perform FEA analysis for radome structures and related accessories and prepare technical reports and technical memos to support on-going and prospective customer projects. He/she will work with the engineering and marketing departments and participate in preparing technical proposals and in other assignments throughout the company. The applicant will also participate in design review meetings and factory acceptance testing when necessary to present their related work. The applicant will support all manufacturing /QC /field activities as well.

The Company:

AFC is a Small Business Corporation with design and manufacturing facilities located in Ocala, Florida. The company has been supplying radomes and antenna products for over 30 years. Ocala is a great place to raise a family. As a small business company, AFC depends on the expertise and success of its employees.

The company maintains a 401k and Profit-Sharing Retirement plan as well as a health Insurance plan for the employee and family. Bonuses are often paid to employees during the holiday season.

Contact:

The applicant may submit the resume with a cover letter by email to hr@afcsat.com. The submission shall include at least three qualified references who currently have or had direct technical interaction in the past with the applicant about related work. Qualified candidates will be short-listed for an initial phone interview.