



## Job Description

<b>Job Title</b>	Senior Product Engineer – Chiller Products
<b>Department</b>	Engineering
<b>Reporting Manager</b>	Engineering Manager
<b>Company</b>	Dunham-Bush USA LLC
<b>Location</b>	Homestead, Florida
<b>Date Updated</b>	July 5 <sup>th</sup> , 2023

### **General Summary:**

This Senior Product Engineer position for Chiller products is required to supervise and lead a team of Engineer in sustaining Engineering, new product design and development transfer activities such as review and design of HVAC equipment, in meeting the application standards, customer/market requirements, and sound engineering principle, including ETO based products. He or she is responsible in ensuring Product Engineers under his/her care understand all the requirements and execute the product engineering duty and work in proper and timely manner.

### **Principal Responsibilities:**

- Oversee continuous improvement of existing products and new launches in chiller products, including sustaining engineering, design, and development activities for the continued launch of the new products. This work will consume approximately 25% of his time.
- Responsible for reviewing factory orders to make sure they are in complying with applicable engineering standards, customer requirements, and sound engineering principles. This work will consume approximately 10% of his time.
- Communicate with other divisions such as Electrical & Control, Pressure Vessel, and other Departments to ensure smooth flow of fabrication work. This work will consume approximately 10% of his time.
- To assist in resolving production technical issues encountered on products we are developing, such as the ACM chiller, which features a magnetic bearing oil-free compressor and EC condenser fans, with options of free cooling and an adiabatic cooling system. This work will consume 10% of this time.
- Promote product quality, safety, and performance by examining and certifying that split chiller designs and low temperature cooling processes are achieved at a high level. This work will consume approximately 10% of his time.
- Lead product certification and compliance process and activities, for AHRI and ETL certifications. This work will consume approximately 5% of his time.
- Responsible for the preparation of documents required for the projects including Drawings, Purchased Part Specifications, Procedures, Bills of Material, Catalogues, Installation Manuals, and other documents required for the design and manufacture of various chiller products. This work will consume approximately 10% of his time.
- Responsible for providing technical support to Sales/Marketing, Warranty Service, Quality Control & Production Departments, Associate Companies and Customers as needed, on engineering related matters and product quality feedback. This work will consume approximately 5% of his time.
- Provide proposals for various customer requirements and select appropriate units for customers and advise customers of price additions for special requirements, and to achieve technical parameter compliance. This work requires specialized knowledge of our proprietary products. This work will consume approximately 5% of his time.



- Assist Purchasing Department in sourcing components & raw materials, providing specifications and evaluating quality of vendors. This work will consume approximately 5% of his time; and
- Any other duties assigned by the Product Manager or as detailed in the Quality Documents. This work will require approximately 5% of this time.

#### **Knowledge, Skill, and Ability Requirements:**

- Minimum 5 to 8 years relevant working experiences and industries preferably in Air-cooled, water-cooled, screw, scroll and centrifugal compressors product design, testing and manufacturing processes.
- Specialized knowledge of Screw comps application, centrifugal comps, vessels design including piping, components matching, condenser and evaporator design, oil management and safety code requirements will be added advantage.
- Extensive knowledge of HVAC systems, applications and trouble shooting.
- Organizational skills necessary to manage multiple assignments and priorities.
- Good written and verbal English communication skills and presentation skills.
- Possess strong management skills and ability to train others.
- Effective planning and control of multiple concurrent projects.
- Proficient in the use of Microsoft Outlook, Excel, PowerPoint, and Words.
- Knowledge in engineering software such as Solidworks, Inventor, FEA, Visual Basic, AutoCAD, would be added advantage.

#### **Education Requirements:**

- Candidates must possess at least a bachelor's or Professional Degree in Mechanical Engineering.

***Dunham-Bush is an equal opportunity employer, and all qualified applicants will receive consideration for employment without regard to race, color, religion, age, sex, national origin, disability status, genetics, protected veteran status, sexual orientation, gender identity or expression, or any other characteristic protected by federal, state, or local laws.***