



March 8, 2006

## **Mechanical Design Engineer – Entry Level**

### **Job Summary:**

Develop, organize and conduct complex design assignments in mechanical systems as required for new business jet aircraft. Specify and provide engineering support for vendor supplied components and systems. Develop and perform or assist with validation testing and alternative calculations. Interface with and support other departments in developing new designs and sustaining current designs. Provide professional and thorough documentation of work.

**Reports to:** Engineering Manager

### **Requirements:**

- Minimum BS degree in Mechanical or Aerospace Engineering or equivalent design experience
- Proficient in 3D CAD modeling, Solid Works preferred
- Proficient in all Microsoft Office products
- Excellent technical writing skills
- Professional demeanor with the ability to communicate effectively and contribute in a cross functional team environment
- Free and creative thinker but able to focus on task at hand within schedule requirements.
- Aircraft design engineering experience, preferably in the general aviation industry preferred

### **Desired Skills and Abilities:**

- Mechanical aptitude
- Manufacturing/machining education and/or experience.
- Training and/or experience in FAA Part 23 certification helpful.
- Education and/or experience in composites helpful



March 8, 2006

## Mechanical Systems Engineer

### Job Summary:

Develop, organize and conduct and direct complex design assignments in mechanical systems as required for new business jet aircraft. Specify and provide engineering support for vendor supplied components and systems. Develop and perform or assist with validation testing and alternative calculations. Interface with and support other departments in developing new designs and sustaining current designs. Provide professional and thorough documentation of work.

**Reports to:** Engineering Manager

### Requirements:

- Minimum BS degree in Mechanical or Aerospace Engineering or equivalent design experience
- Minimum 5 years experience in design of mechanical systems on aircraft
- Must have a working knowledge of some or all of the following mechanical systems; landing gear, electrical actuators, oxygen, flight control
- Be familiar with applicable FAR requirements particularly for Part 23 certification
- Proficient in 3D CAD modeling, Solid Works preferred
- Proficient in all Microsoft Office products
- Excellent technical writing skills
- Professional demeanor with the ability to communicate effectively and contribute in a cross functional team environment
- Free and creative thinker but able to focus on task at hand within schedule requirements.

### Desired Skills and Abilities:

- Mechanical aptitude
- Manufacturing/machining education and/or experience.
- Education and/or experience in composites helpful



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## **Electrical Design Engineer**

### **Job Summary:**

Develop, organize and conduct complex design assignments in electrical and/or avionics systems as required for new business jet aircraft. Specify and provide engineering support for vendor supplied components and systems. Develop and perform or assist with validation testing and alternative calculations. Interface with and support other departments in developing new designs and sustaining current designs. Provide professional and thorough documentation of work.

**Reports to:** Engineering Manager

### **Requirements:**

- Minimum BS degree in Electrical Engineering or equivalent design experience
- Minimum 5 years experience in design of aircraft 28VDC power distribution systems and/or avionics systems specification, architecture and development
- AutoCAD experience
- Proficient in all Microsoft Office products
- Excellent technical writing skills
- Professional demeanor with the ability to communicate effectively and contribute in a cross functional team environment
- Free and creative thinker but able to focus on task at hand within schedule requirements.

### **Desired Skills and Abilities:**

- Training and/or experience in FAA Part 23 certification.
- Solid Works 3D CAD modeling experience helpful
- Able to multi-task and work in a dynamic environment
- FCC license and/or A&P certification preferred



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## **Stress/Structural Analysis Engineer**

### **Job Summary:**

Develop, organize and conduct complex design assignments in structural design as required for new business jet aircraft. Develop and perform or assist with validation testing and alternative calculations. Interface with and support other departments in developing new designs and sustaining current designs. Provide professional and thorough documentation of work.

**Reports to:** Engineering Manager

### **Requirements:**

- Minimum of 2 years of aircraft design engineering experience, preferably in the general aviation industry
- Minimum BS degree in Mechanical or Aerospace Engineering or equivalent
- Knowledge of engineering analysis and manufacture of composite materials
- Proficient in 3D CAD modeling, detail and assembly creation preferably SolidWorks
- Proficient in FEA particularly NE/Nastran and CosmosWorks FEA software
- Proficient in all Microsoft Office products and Mathcad
- Excellent technical writing skills
- Professional demeanor with the ability to communicate effectively and contribute in a cross functional team environment
- Free and creative thinker but able to focus on task at hand within schedule requirements.

### **Desired Skills and Abilities:**

- Mechanical aptitude
- Manufacturing/machining education and/or experience.
- Training and/or experience in FAA Part 23 certification.



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## Designer

### Job Summary:

Translate ideas from design layouts, specifications, rough sketches, and calculations of engineers into working drawings for new business jet aircraft. Working drawings may consist of mechanical, electrical or fluids design as well as technical illustrations. Perform basic mechanical and systems design. Perform basic engineering analysis in structures, mechanics and strength of materials. Interface with manufacturing and document control.

**Reports to:** Engineering Manager

### Requirements:

- Minimum AS degree in Mechanical Drafting Technology or equivalent design experience
- Proficient in 2D and 3D CAD preferably AutoCAD and Solid Works
- Proficient in all Microsoft Office products
- Excellent technical writing skills
- Professional demeanor with the ability to communicate effectively and contribute in a cross functional team environment
- Free and creative thinker but able to focus on task at hand within schedule requirements.
- Aircraft design experience, preferably in the general aviation industry helpful

### Desired Skills and Abilities:

- Mechanical aptitude
- Manufacturing/machining education and/or experience.
- Education and/or experience in composites preferred



March 8, 2006

## **Designer/Checker**

### **Job Summary:**

Translate ideas from design layouts, specifications, rough sketches, and calculations of engineers into working drawings for new business jet aircraft. Working drawings may consist of mechanical, electrical or fluids design as well as technical illustrations. Perform basic mechanical and systems design. Perform basic engineering analysis in structures, mechanics and strength of materials. Oversee and perform checking function to RMC and ANSI Y14.5 standards. Interface with manufacturing and document control.

**Reports to:** Engineering Manager

### **Requirements:**

- Minimum AS degree in Mechanical Drafting Technology or equivalent design experience
- Minimum 5 years experience in design and drafting
- Proficient in 2D and 3D CAD preferably AutoCAD and Solid Works
- Proficient in all Microsoft Office products
- Excellent technical writing skills
- Professional demeanor with the ability to communicate effectively and contribute in a cross functional team environment
- Free and creative thinker but able to focus on task at hand within schedule requirements.
- Aircraft design experience, preferably in the general aviation industry helpful

### **Desired Skills and Abilities:**

- Mechanical aptitude
- Manufacturing/machining education and/or experience
- Education and/or experience in composites
- Training and/or experience in FAA Part 23 certification preferred



March 8, 2006

## Project Engineer - Propulsion and Fuel

### Job Summary:

Manage and be responsible for the development of propulsion and fuel systems for business jet aircraft. This includes all engineering activities from initiation through delivery ensuring completion of project objectives on schedule and within budget. Interface with and support manufacturing, quality assurance, flight test and FAA certification. Ensure professional and thorough documentation of work.

**Reports to:** Engineering Manager

### Requirements:

- Minimum of 5 years experience with turbofan propulsion systems including fuel systems, engine installations and air inlet/exhaust systems
- Minimum BS degree in Mechanical or Aerospace Engineering or equivalent experience
- Ability to plan and manage multiple tasks simultaneously required with project and personnel management background preferred.
- Proficient in all Microsoft Office products including MS Project
- Excellent technical writing skills
- Professional demeanor with the ability to communicate effectively and contribute in a cross functional team environment
- Free and creative thinker but able to focus on task at hand within schedule requirements.

### Desired Skills and Abilities:

- Experience in 3D modeling, Solid Works 3D CAD modeling preferred
- Training and/or experience in FAA Part 23 certification.
- A&P mechanic experience helpful
- General aviation experience



March 8, 2006

## **Project Engineer – ECS/Bleed Air**

### **Job Summary:**

Manage and be responsible for the development of ECS and bleed air systems for business jet aircraft. This includes all engineering activities from initiation through delivery ensuring completion of project objectives on schedule and within budget. Interface with and support manufacturing, quality assurance, flight test and FAA certification. Ensure professional and thorough documentation of work.

**Reports to:** Engineering Manager

### **Requirements:**

- Minimum of 5 years experience in the development and/or support of ECS and bleed air systems.
- Minimum BS degree in Mechanical or Aerospace Engineering or equivalent experience
- Ability to plan and manage multiple tasks simultaneously required with project and personnel management background preferred.
- Proficient in all Microsoft Office products including MS Project
- Excellent technical writing skills
- Professional demeanor with the ability to communicate effectively and contribute in a cross functional team environment
- Free and creative thinker but able to focus on task at hand within schedule requirements.

### **Desired Skills and Abilities:**

- Experience in 3D modeling, Solid Works 3D CAD modeling preferred
- Training and/or experience in FAA Part 23 certification.
- A&P mechanic experience helpful
- General aviation experience preferred



March 8, 2006

## Instrument and Test Engineer

**Job Summary:** Plan, develop, organize, setup and conduct complex testing assignments as required. Interface with and support other departments with testing requirements. Assist engineering with reduction, analysis and archiving of calibrated test data in engineering units. Provide professional and thorough documentation of work in the form of test plans and reports suitable for submittal to FAA. Specify, acquire and maintain test hardware.

**Reports to:** Engineering Manager

### Requirements:

- Minimum BS degree in Mechanical, Electrical, EET or Aerospace Engineering or equivalent experience
- Minimum of 5 years of experience in testing of mechanical systems, structures and materials, preferably in the general aviation industry
- Proficiency in working with various measurement instrumentation such as strain gages, load cells, accelerometers, displacement transducers, pressure transducers, thermocouples and telemetry systems
- Proficient in National Instruments LabView instrumentation software.
- Proficient in all Microsoft Office products
- Excellent technical writing skills
- Professional demeanor with the ability to communicate effectively and contribute in a cross functional team environment
- Free and creative thinker but able to focus on task at hand within schedule requirements.

### Desired Skills and Abilities:

- Experience in 3D modeling, Solid Works 3D CAD modeling helpful
- Training and/or experience with FARs and FAA Part 23 certification.



April 5, 2006

## **Quality Assurance Inspector**

### **EDUCATION**

College and/or High school education in a related field(s).

### **RESPONSIBILITIES**

The inspection and documentation of conformed aircraft parts and hardware. Able to perform internal and external audits if required.

### **QUALIFICATIONS**

High school education or equivalent; or up to 1 year related experience or training; or equivalent combination of education and experience. Ability to perform basic computer skills and software such as Microsoft Office (Excel, Word etc.) Good communication skills both written and oral, strong attention to detail, self starter. Ability to read and inspect to engineering drawings, knowledge of aircraft assembly practices, use of common measuring devices. Familiar with NDT inspection experience (dye penetration, ultrasonic). Should have experience with and an understanding of AS9100 or ISO9001 requirements. May have periods of prolonged standing, will be required to maneuver into confined areas and under / above aircraft structure.

Must be able to interface with all levels of management, suppliers, and FAA representatives. Must be customer focused.

Work hours may include shift work.

NOTE: If not qualified, do not apply.