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DESIGN ENGINEER

JANUARY 2019 machinedesign.com

3D PRINTING TRENDS

for 2019 p76

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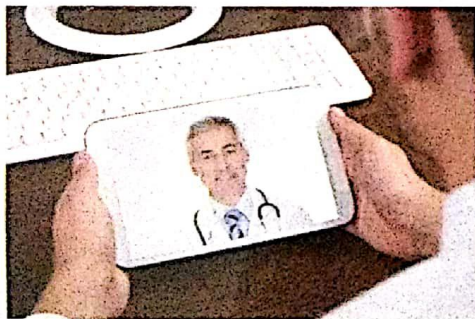
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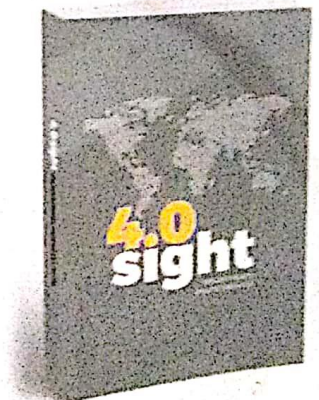
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Aerospace

In Search of:
Principal Pneumatic Engineer
LOCATION: Hauppauge, NY
CIRCOR Aerospace Inc. (CAI)

CIRCOR Aerospace is a fast-growing company known for its ability to provide highly engineered technology, service and system solutions to a range of aerospace and associated markets.

Globally focused with strategic facilities on four continents, we offer a range of products, components and integrated systems that are found on most commercial and military aircraft, as well as on unmanned aircraft, military ground vehicles, shipboard applications and spacecraft. Core product lines include: fluid control, landing gear and actuation, and electro-mechanical control.

The Hauppauge NY facility, manufactures and supplies engineered critical control components and sub-systems based on customer requirements to the aerospace and medical equipment markets. A new lean manufacturing facility, features a class 10K clean room for flight critical pressure regulators, model line cells for pneumatic weapons release systems, centrifuge production line for blood separation technologies, and an additional production area for kinetic switch components and modules.

Position Summary

Primary purpose of the job is to execute assigned design work to support engineering project activity.

Responsibilities include the conceptual design and development of pneumatic fluid power control products (i.e. regulators, valves, etc.) and the ability to accurately interpret customer specifications to design and develop aerospace qualified hardware.

Designs specialized pneumatic valves using computer aided design and drafting (CADD) tools to meet customer requests; and collaborates as necessary to generate details, assembly drawings, models, bills of materials (BOM), associated production and development procedures/reports.

Act as a subject matter expert in the pneumatic domain and mentor others.

Education & Experience

- Requires a BSME degree.
- 20 years minimum experience in the design and development of mechanical assemblies.
- 8 years valve design experience (pneumatic strongly preferred) and development of pneumatic valves.

Knowledge Skills & Abilities

- Experience in design of detail mechanical components/control valves
- Some project management.
- Technical Writing – Acceptance Test Procedures, Design Reports, Qualification Test Procedure/Reports
- Hands-On Experience – Assembly, setup and testing, troubleshooting, laboratory testing
- An interest in problem solving & continuous improvement, but no prior experience is required as training will be provided.
- Electrical testing, precision testing using meters
- Experience or an understanding of circuit boards is a plus
- Experience in performing GD&T on complex assemblies based on the latest guidelines.
- CADD – Solidworks knowledge is preferred.
- Stress analysis - ANSYS/FEA knowledge is preferred
- Manufacturing Practices (preferred) – Machining, welding, stamping, molding, etc.

To apply contact us at www.circor.com/about/careers

MACHINE DESIGN

FEBRUARY

ISSUE PREVIEW

February Ad Close: 1/18/19

Ad Materials Due: 1/25/19

Technology:

**Transportation/Automotive/
Aerospace**

Industry Trends:

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Product Trends:

Motion

**Engineering Essentials
Motors & Actuators**

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