Position Overview: Advanced Digital Manufacturing Systems Leader (Harrisburg, PA)

They have an opportunity for an Advanced Manufacturing Technology (AMT) Digital Manufacturing Systems Leader who masters advanced methodologies, processes & technologies and align change efforts with business goals & strategies of a manufacturing company. The individual will lead a small team designing 3D items for printing on 3d printers, detail existing designs, and prepare parts for various additive manufacturing printers. This individual will work with the materials development group to jointly deploy materials developed for production using 3D technologies. This individual will also work with the team to develop and deploy the tools necessary for the business unit designers to properly design 3D items for printing.

In addition, the individual will develop strategies, technology road-maps and implement processes and operating systems in support of connector manufacturing technologies and sub-assemblies applying digital and additive manufacturing.

Responsibilities:

As an Additive Manufacturing Systems Leader, you will report to the Director/Fellow of Advanced Manufacturing Technology and interface directly with manufacturing engineering team inside AMT and different business units to provide technical expertise on current cutting edge and next generation technologies. The individual will be working closely with process engineers, manufacturing engineers and external system integrators. Most importantly, the individual will have the opportunity to design parts for new 3D printers and design modifications to existing printers, assemble these parts and modifications, and sometimes make or modify these parts in the shop or lab.

• Responsible for optimization of Additive Manufacturing processes focused on 3D Printing.

• Responsible for developing, implementing and maintaining advanced digital manufacturing methodologies and systems.

• Work with team members in AMT and the BU(s) to create Digital Manufacturing models for product designs.

• Work with team members in AMT and the BU(s) to develop the tools, procedures, and training required for the BU(s) to design and prepare their own Digital Manufactured parts.

• Work with the team members in AMT and the BU(s) to deploy Digital Manufacturing throughout the company.

• Working with intellectual property (IP) councils and legal teams to innovate and to strengthen IP strategies and portfolios in advanced manufacturing technology.

• Provides leadership to technical personnel to ensure new product design using 3D technologies meets quality and production goals.
Professional Qualifications:

1. The Additive Manufacturing Systems Leader must be a strategic thinker and problem solver. He/she must combine a detailed technical knowledge with business functions, and operations management.

2. The candidate should also be aware with the latest technologies related to various methods and implementations of other additive manufacturing processes in addition to 3D printing.

3. He/she should be well organized, disciplined and self-motivated, with the capability to balance multiple priorities related to operations and organization. He/she must be able to communicate with internal company personnel, as well as various BU’s, with equal effectiveness and professionalism.

4. Master’s Degree (PhD Preferred) in Engineering from an accredited college or university.

5. Strongly preferred 10+ years of experience in developing and implementing digital manufacturing processes, with focus on 3D additive manufacturing tools and methods.

6. Very strong capability for developing new algorithms for point cloud representation using computational geometry algorithms and methods. Working knowledge of dynamic programming and other mathematical approaches to curve and surface modeling including blending techniques.

7. Candidates must be familiar with CAD file format translations, and design for manufacturing. An understanding of Creo/ProE or other solid modeling CAD packages is required. In addition familiarity with CAE methods including Ansys is preferred.

8. Responsible for developing and implementing and maintaining advanced manufacturing methodologies and systems.

9. Experience working on projects using an open source 3D printer and Manipulating 3D CAD models, file conversion and model creation. Additional experience with Stratasys printers and software is preferred.

10. Experience with Pre-processing models to prepare for fabrication and Post-processing models generated on 3D printing equipment.

11. Analyze system requirements, capacity, cost, and customer needs to determine feasibility of a project and development plan.

12. Determine capital equipment needs & development of the budget process for equipment, training and software.

13. Confer with suppliers, staff, and management personnel regarding purchases, procedures, product specifications, manufacturing capabilities, and projects status.

14. Candidate must be familiar with polymer processing techniques and polymer material properties. Prior molding or extrusion experience is preferred.
NOTE: Digital Manufacturing Experience is a MUST.

IF you are interested in exploring this opportunity to work with one of the leading technology companies in the world, please respond with a resume. Referrals, recommendations and suggestions are always welcome, as are 'random' resume submissions for other possible opportunities not described above. Cover letters explaining which position most interests you (and why) are very helpful.

Best Regards,

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