



Edwards Vacuum Inc.

[www.edwardsvacuum.com](http://www.edwardsvacuum.com)

**Job Title:** Advanced Manufacturing Digital Program Specialist

**Location:** Chelmsford, MA

**Manager's Job Title:** Advanced Manufacturing Engineering Manager

<https://career5.successfactors.eu/sfcareer/jobreqcareer?jobId=31916&company=atlascpcoP>

**Purpose of the Job:**

The three Chelmsford Divisional based roles are expected to initially focus on the following areas:

- ✓ Lean Transformation
- ✓ Digital Transformation
- ✓ Automation

Identify and drive major manufacturing innovation or step change programs for their focus area within the Semiconductor Chamber Solutions Division. The AM Specialist works to ensure that the programs deliver to the divisional manufacturing strategy within agreed timelines, budgetary requirements and with Voice of the Customer, Safety and Quality built into program requirements.

The AM Specialists will be responsible for bringing nextGeneration manufacturing technologies, skills and workflows to the Vacuum Semi Chamber Division through continuous coaching, demonstration and leadership. In doing so enabling agile, adaptive and operational excellence across the Product Company portfolio

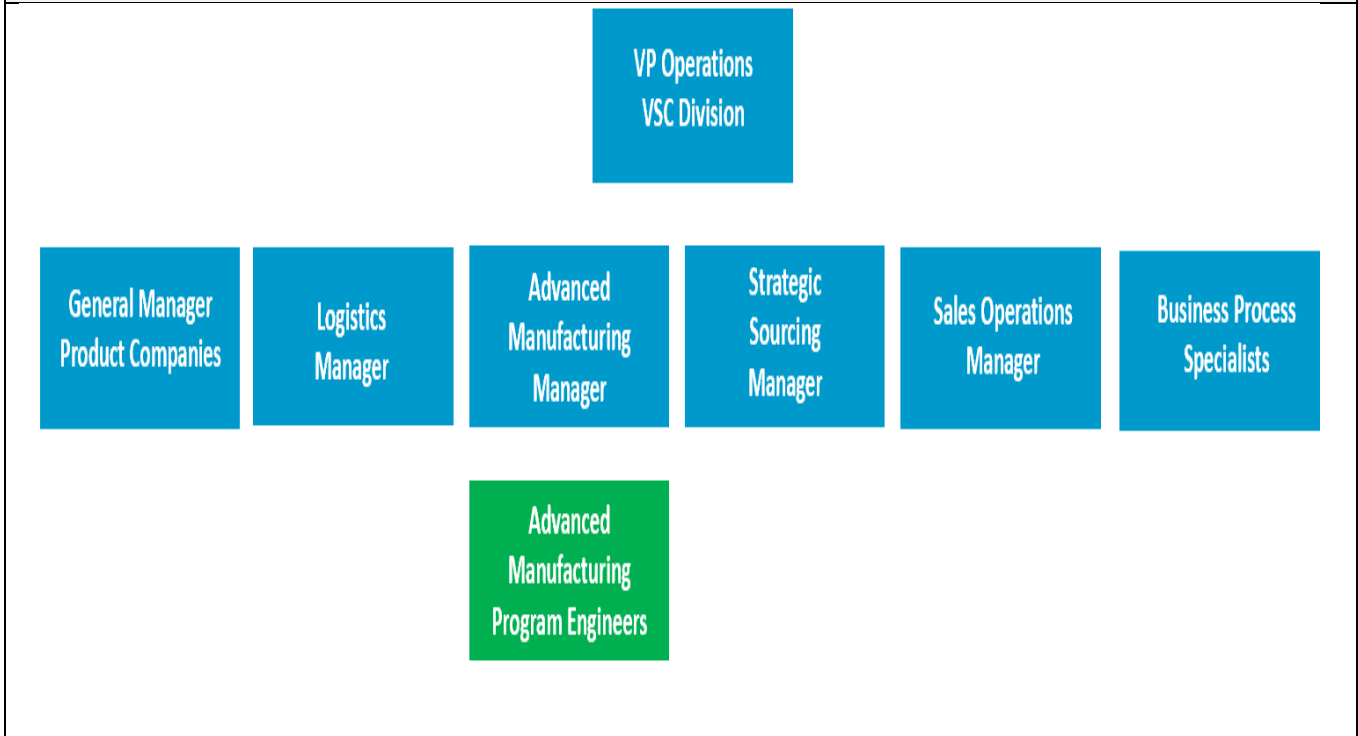
Improve the performance of our manufacturing through the innovative application of technologies, processes and methods toward product design and production. Work closely with Product Company (PC) leadership teams to ensure smooth execution and delivery of advanced manufacturing programs

**Main Responsibilities:**

- Craft and drive Divisional Digitalization Strategy by seeking next generation technologies that enhance Product Company operations. Included in this transformation is the fundamental current vs future state analysis of hardware, software and people skills.
- Develop a Digital road map based on a broad range of improvements. Understand and expand the current manufacturing data eco-system, by mapping existing data and data gaps, in order to enable identification of sources of value with analytical revenue growth or performance improvements.
- Coach and drive Factory 4.0 techniques (MES, SCADA, SPC) to the IT, Engineering and Manufacturing teams. Drive best practice and Standardization throughout Product Companies
- Drive new Smart factory methods with the goal of providing enhanced manufacturing performance and/or cost, maintaining or improving our competitive advantage.
- Program Management of new Digital tools (Vendor Selection, Development thru Deployment, Vendor Management)
- Identify internal gaps that may require upskilling, hardware/software upgrades and hiring
- Partner with internal stakeholders in terms of a Data Architecture and Networking strategy with global factory locations.
- Work closely with fellow AM Specialists in the areas of Lean and Automation
- Building a detailed understanding of the current operations environment and challenges will be required and the ability to be a change agent
- Actively develop and maintain nextGen technology network via trade shows, vendors and university research
- Strong ability to quantify step change benefits through Costing Standards. Ability to communicate such benefits to drive business decisions (ex. cost savings, efficiency, KPI's, ROI)
- Ensure product design / development process quality aligns to the manufacturing process, working with engineering team on the design testing methods to check if the quality of the products are made with the industry standards in mind
- Ensure planned operational improvements can be realized leading to improved Safety, Quality, Delivery, Cost, People, Environment (SQDCPE). Manufacturing capacity and capability are in place to implement program. Delivery on time and budget plus cost and quality targets are met.
- Work closely with Product Company (PC) leadership teams to ensure smooth execution and delivery of advanced manufacturing programs, ensuring the resources in the PC are aligned to the program as required and build and develop the correct skills and tools required to deliver the projects.
- Maintain professional and technical knowledge on facility, product design, manufacture, and assembly techniques especially with regard to market & geo-political volatility.



**Organization Chart:**



**Requirements:**

- Bachelor's (or higher) degree in Engineering, Computer Science or closely related discipline.
- Minimum of 8 years with demonstrated ability to deliver Factory 4.0 solutions, lead by example and drive change
- In-depth technical knowledge and skills in the areas of process control and computer system networking. Experience with coding platforms such as but not limited to .net, Ignition, Python, Labview, Kepware, Siemens ladder logic PLC or equivalent a plus.
- Experience with "smart" industrial and wireless IoT protocols; OPC Unified Architecture, CANopen, IO-Link, EtherNet/IP. Deep understanding of BACnet, zigbee, LoRa, MQTT
- Lean Six Sigma certification a plus
- Deep understanding of designing data flows and data schema, data storage and SQL databases
- Excellent influencing, negotiation skills at multiple organizational levels
- Strong analytical skills and ability to form opinions based on data aggregation. Must be able to analyze complex program requirements, identify key phases & workstreams
- Well organized, displaying clear, rational and analytical approach to problem solving and planning. Ability to use tools like Visio and Powerpoint to communicate complex solutions simply to non-technical audiences
- Ability to create proof of concepts programs using aforementioned tools
- Remains calm under pressure and has the ability to find creative and pragmatic solutions
- Willing to look for / explore new solutions or methods
- Flexibility to travel to multiple Edwards locations nationally and internationally on a regular basis
- Ability to manage performance of 3rd party service providers, to ensure services deliver value for money

**Scope of the job**

- Provides advanced manufacturing solutions for a business with annual output in revenue terms of around US\$300M and employing > 250 people in manufacturing related processes.
- This Divisional role will be based in Chelmsford, MA until a new facility in Haverhill, MA opens in 2022. Drive operations in Haverhill, Mexico and Japan. Travel to those locations as needed including supplier and / or customer sites.
- Working in the divisional team but with strong influence over the manufacturing teams in the product companies both current and future.
- Exact number of projects under the purview of this role will depend on scale and complexity.