



**SMU | LYLE**  
SCHOOL OF ENGINEERING

*To profitably produce a high quality, fuel efficient compact, a domestic automaker retools a legacy factory with the latest in computer integrated manufacturing technology.*

*To speed development and manage quality, a semiconductor manufacturer brings production back to the U.S. and collocates it with design and engineering.*

*To develop an innovative aircraft design, a team of engineers start a new, entrepreneurial business unit within an established aerospace manufacturer.*

Developing lean, agile organizations. Compressing life cycles to reduce costs and time to market. Managing the logistics of multinational supply chains. Looking years ahead to plan next generation products. These are among the many challenges facing manufacturers in every sector.

These are the imperatives driving demand for people with the knowledge and skills to manage manufacturing at the strategic, executive level. This is the opportunity behind the master's program in manufacturing systems management at SMU-Lyle.

#### **FIND US HERE**

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## MASTER OF SCIENCE | MANUFACTURING SYSTEMS MANAGEMENT





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*Manufacturing is the true fuel of any healthy economy. Corporations need to drive change, manage processes, and put together the best teams for sustainable growth. The MSM program at Lyle has the tools for all levels of leadership to stay competitive, to build on the strengths of their companies and products, and to create dynamic visions with contingencies for future growth. This program is a great tool for understanding the innovation of change.*

**Gus Shaar**

**Manufacturing Systems Manager | Electronics – Low and Medium Voltage Smart Grids**

## ACADEMIC PROGRAM

Thirty credit hours (30 CH) of graduate courses with a minimum graduate G.P.A. of 3.000 on a 4.000 scale.

Satisfactory completion of the following ten courses.

- Computer Integrated Manufacturing Systems
- Entrepreneurship and Business Development in Manufacturing
- Finance and the Manufacturing Enterprise
- Global Manufacturing
- Innovation Management
- Lean Manufacturing and Six Sigma
- Manufacturing Management
- Manufacturing Methods and Systems
- Organizational Leadership
- Strategies for Manufacturing Firms

## DRIVE EXCELLENCE

Manufacturing organizations of every kind—from startups to multinationals—need engineering leaders with a balance of technical expertise and management skills to lead their operations at the VP level and above. This is the focus of the curriculum developed for the master's degree program at Lyle. In this 30-hour offering, students explore ongoing developments in manufacturing technology and concepts such as Six Sigma, disruptive innovation, sustainability, and globalization. They acquire a more encompassing knowledge of business, including marketing, finance, intellectual property law, and entrepreneurship. They learn the principles of leadership—the metrics of success—and they emerge uniquely qualified to contribute to the revitalization of manufacturing in America.

## DEFINE PERSPECTIVES

SMU-Lyle's manufacturing systems management curriculum bridges the divide between the academic and the pragmatic. Developed in consultation with industry leaders, course content is delivered by an expert faculty with decades of combined, high-level experience in front-line manufacturing and executive-level leadership. Students also benefit from the experience of expert guest lecturers brought in from top-flight area manufacturing organizations to address specific topics—an investor in startups, for example, or the leader of a team focused on creating a culture of innovation. In this professional degree program, the emphasis is on generating ideas that graduates can put to work immediately.