

# Applications Engineering Services

In Oklahoma, we have a long history of innovation dating back to the early oil days. Today, that ingenuity vested in advanced manufacturing concepts is even more critical. There is a constant stream of innovative technologies, new business processes, and enlightened management techniques leading to greater productivity and economic growth.

Oklahoma State University applications engineers work for the Manufacturing Alliance to provide on-site, one-on-one, focused engineering assistance and technology transfer services. It's an effort to increase the competitiveness of small and medium-sized Oklahoma manufacturers. OSU's highly-trained engineers can tailor program services to fit the needs of individual companies.

Applications Engineers will visit your facility and assess your situation free of charge. After determining their ability to assist, work plans are defined and an affordable project fee is established.

## Technology Assistance for Oklahoma Manufacturers



Offering affordable fees, our applications engineers have the expertise to help manufacturers in these areas *and many more ...*

- Facility Layout
- Capacity Planning
- Machine Center Programming
- Machine Center Tooling
- Machine Center Automation
- Spindle Utilization
- Equipment Design
- Equipment Re-Design
- Equipment Modification
- Product Design
- Design Review and Prototyping
- Design for Welding
- Technology Transfer
- Mechanical Failure Analysis
- Localized Optimization of Process
- Demand Management
- Virtual Simulations
- Energy Audits
- Project Management
- Inventory Planning and Control
- Materials Requirement Planning
- Enterprise Resource Planning
- Supply Chain Logistics
- Scheduling
- Sales and Operations Planning
- Distributed Requirements Planning
- Control Charts
- Product FMEA Analysis
- Process FMEA Analysis
- Experimental Design
- Business Process / Information Flow
- Ergonomics and Human Factors



## OKLAHOMA MANUFACTURING ALLIANCE

Since 1997 OSU's Applications Engineering Program has provided expert advice to hundreds of Oklahoma manufacturers resulting in a much-needed boost to Oklahoma's economy. By placing a staff of experienced engineers across the state, the program provides manufacturers direct access to the latest in technology. These engineers are an integral part of Oklahoma Manufacturing Alliance and have access to the resources of OSU's nationally-recognized engineering faculty. This knowledge and experience represents a valuable resource for Oklahoma's manufacturers. Companies are surveyed by an independent organization after completion of a project. The opinions expressed on the survey help shape the direction of the program in the future.





*We had ideas in our head. But it was a matter of taking those ideas and making them work in the real world.*



**Randy Smay**  
**EMCO Industries**



*Advanced Steel and Crane understood it needed to address gaps in process flows and streamline its production control systems in order to improve its bottom line. This understanding helped us to develop and implement solutions to address the gaps.”*



**Dr. Rajesh Krishnamurthy**

Applications Engineers are conveniently located across Oklahoma to reach all areas of the state.

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