



FACULTY ASSISTANCE PROJECTS

In order to advance economic prosperity, health, and quality of life in Indiana, up to 40 hours a year of assistance is available from Purdue to businesses in the state. This assistance is to identify and/or address an acute need with a discrete solution. The solution may take the form of guidance, analysis, or validation. What follows is a sampling of areas in which Purdue faculty and staff may provide assistance.

Business Management

- Activity-based costing guidance
- Budgeting guidance
- Engineering economics
- Expansion/retraction decision factors
- Forecasting guidance
- Profitability considerations
- Strategic planning
- Venture capital investments

Manufacturing

- Advanced process control
- Automation
- Electrical issues
- Mechanical issues
- Processing issues

Materials & Chemistry

- Composite properties
- Corrosion analysis
- Counterfeit identification
- Environmental safety
- Heat treating
- Material characterization & selection
- Polymer & monomer properties
- Product evaluation & testing
- Product failure analysis
- Properties analysis
- Solder & weld recommendations
- VOC issues

Product Validation & Applied Engineering

- Acoustics
- Aerodynamics
- Circuit and electronic design
- Design input and review
- Finite element analysis
- Fluid dynamics
- Heat and power issues
- Human factors
- Problem solving
- Product evaluation and testing
- Rapid prototyping
- Reverse engineering
- Sensor use & application
- Thermodynamics
- Wireless systems

Productivity & Process Optimization

- Distribution & logistics
- Plant layout
- Scheduling
- Sourcing & make/buy decisions
- Statistical analyses
- Warehouse management

Quality Assurance

- Data analysis for processes and products
- Data trending
- Experiment design
- Quality control techniques application
- Sampling and sample size calculations
- Survey design and analysis

About Purdue MEP

Purdue MEP provides high-value solutions that help Indiana businesses maximize their success by increasing profits, reducing costs, and implementing growth systems. Our organization serves more than 500 companies annually by implementing continuous improvement principles in the areas of productivity, growth and technology. Purdue MEP has helped our clients collectively achieve over \$2.0 billion of economic impact in Indiana since 2005.

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