A multi-disciplinary, multi-university research center

The MU team consists of faculty from:
* industrial engineering
* transportation systems engineering
* management logistics (business)
* agricultural economics

CELDi Academic Partners provide additional research results to leverage CELDi membership investment.

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University of Missouri

Center for Engineering Logistics and Distribution (CELDi)

A National Science Foundation sponsored Industry/University Cooperative Research Center (I/UCRC)
Center Objective
Conduct applied research into large scale and facility-level logistics system challenges through modeling, analysis, and intelligent systems technologies.

CELDi Structure
A 1 year membership in CELDi costs a minimum of $50,000 and includes an industry member specified project that:
- Involves MU faculty, one or more graduate students, and potentially undergraduate students
- Is comprised of either a single project or a multi-year sequence of projects

Members agree to share the fundamental research component of all projects with all industrial members of CELDi, however,
- Confidential remains confidential
- Industry members review all documents before they are released

Sample Industry Projects

Logistics Systems Analysis and Design
- Integrated International / Domestic Logistics Network Design and Consolidation
- Adaptive Logistics Network Optimization
- Distribution Security

Supply Chain Modeling
- Dynamic Supplier Network Partnerships
- Demand Forecasting Models for Dynamic Material Requirements
- Healthcare Supply Chain Modeling
- Spare Parts Inventory Management

Material Flow Design & Improvement
- Staging Needs in a Cross-docking Environment
- Examination of 'Next Generation' Material Handling Solutions
- Warehouse floor layout with respect to picking /stocking operations

Intelligent Systems
- Logistics of Automatic Identification
- Evaluation of RFID in the Rail Industry
- Radio Frequency & Supply Chain Logistics

Representative Industrial Members

Industrial Member Benefits
A CELDi membership provides a wide range of benefits:

1. **Industry member specified project** that utilizes the expertise and resources of a university and accomplishes research at a fraction of the cost

2. **Shared fundamental research** results from other CELDi academic partners provides tremendous leveraging of each industrial members research dollars (ex. royalty free license access to over $5M in previous research)

3. **Receive generalized CELDi work products** such as software developed by other CELDi academic partners

4. **Membership in the CELDi Industrial Advisory Board (IAB)** provides opportunity to interact with other faculty and industrial leaders in logistics, distribution, and supply chain, and provides direction to generalized CELDi work products

5. **Access to top students** enables recruiting the best prepared logistics graduates