

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.



CELDi is a university-based enterprise providing innovative solutions for logistics and distribution excellence with our partner organizations.



For more information contact:
Jim Noble, MU CELDi Site Director
E3437 Lafferre Hall
Columbia, MO 65211

Phone: 573-882-9561
Fax: 573-882-2693
Email: noblej@missouri.edu
WWW: celdi.missouri.edu

University of Missouri

Center for Excellence in Logistics and Distribution (CELDi)



A National Science Foundation
sponsored
Industry/University Cooperative Research Center
(I/UCRC)



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Center Mission

To enable member organizations to achieve logistics and distribution excellence by delivering meaningful, innovative and implementable solutions that provide a return on investment.

CELDi Membership

A 1 year membership in CELDi costs a minimum of \$60,000 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 CELDi Center Designated Project products** such as software, seminars, white papers, industry benchmarking
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 CELDi Center Designated Projects
5. **Access to top students** enables recruiting the best prepared logistics graduates