



INDUSTRY PARTNERSHIPS

Artificial Intelligence Laboratory

The Artificial Intelligence Laboratory specializes in applied AI research and development, particularly focusing on projects in the areas of transportation, molecular biology, and electronics manufacturing optimization.

Partners:

UIC Engineering
Illinois Department of Transportation
National Institutes of Health
National Science Foundation
United States Department
of Transportation

Contacts:

Peter C. Nelson
Interim Dean,
College of Engineering
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Email: nelson@uic.edu

Dates Active:

1991—present
*(see also Biotechnology,
Transportation Innovations)*

Blood Exposure and Primary Prevention in the Home Care Workplace

The proposed research is designed to further understand the risk of blood exposure among workers employed in home care/home health care, and to develop, implement and evaluate the effectiveness of intervention strategies designed for the primary prevention of blood exposure. The project will include surveys of Registered Nurses (RNs) Certified Nurse Assistants (CNAs) and Home Care Workers (HCWs) working in the home environment; as well as a phone survey of directors of home care agencies in the states of Maryland and Illinois. The intervention will be developed and implemented in partnership with union members, their local union representatives, educational experts at the Academy for Educational Development and researchers at the University of Illinois, Chicago School of Public Health and the University of Maryland School of Nursing.

Partners:

UIC Public Health
University of Maryland, Baltimore

Contacts:

Rosemary Sokas
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Occupational Health Sciences
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Email: sokas@uic.edu

Dates Active:

2005—ongoing
(see also Health and Wellness)

Center for Advanced Design Research and Exploration (CADRE)

CADRE was established to provide oversight and program management for select research initiatives related to military operations and homeland security. CADRE supports research and development activities which contribute to, enhance, and lead to new environmental and remote sensing tools able to augment Air Force Medical operations and requirements during sea, air, land, and space operations. CADRE taps into the diverse and substantial research capabilities of the faculty of the UIC campus, as well as the entire University of Illinois system, to monitor research progress, to undertake the review of diverse research proposals, and to provide deliverables according to contractual guidelines and time frames. Currently, the funded research programs involve faculty across multiple disciplines in several colleges on campus. CADRE is working on initiatives for the US Air Force with colleagues from the Colleges of LAS, Medicine, Engineering, and Applied Health Sciences.

Partners:

UIC Applied Health Sciences
UIC Engineering
UIC Liberal Arts and Sciences
UIC Medicine
UIC Vice Chancellor for Research
United States Air Force

Contacts:

Geoffrey Cordell

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Dates Active:

October 2005–present

Center for Human Resources Management

The Center for Human Resource Management (CHRM) is a joint venture between senior executives of member firms and faculty from the Chicago and Urbana-Champaign campuses of the University of Illinois for the purpose of solving problems and challenges involving human resource management. The partners and faculty collectively identify and investigate critical human resource issues and in the process discover “best practices” that result in practical methods for improving the workplace.

Partners:

UIC Business Administration	Owens-Illinois, Inc.
3M Company	Raytheon Company
Alberto-Culver Company	State Farm Mutual Automobile Insurance Company
Allstate Corporation	Trilogy, Inc.
Anheuser-Busch Companies, Inc.	University of Illinois at Urbana-Champaign
Caterpillar, Inc.	USG Corporation
CIGNA Corporation	Verizon Communications Inc.
Frito-Lay, Inc.	Wellmark International
Hewitt Associates, Inc.	
Microsoft Corporation	

Contacts:

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Dates Active:

1991–present

(see also *Business and Entrepreneurial Development, Workforce Development*)

Center for Research in Information Management

The Center for Research in Information Management (CRIM) was established to promote linkages and coalition-building among the university, the business community, and governmental and not-for-profit agencies in the theory and practice of state-of-the-art information management. CRIM's activities include:

RESEARCH in the significance and management of information resources, emphasizing the strategic application of knowledge, approaches, and techniques to serve as a foundation for improved implementation in the business, government, and not-for-profit sectors.

SERVICE to the metropolitan Chicago community through dissemination of current knowledge about information management by means of seminars, workshops, roundtable discussions, informal executive briefings, technical papers and reports, corporate continuing education, and other appropriate methods.

COLLABORATION with local leaders in information management and/or technology and College of Business Administration faculty to identify emerging critical issues, undertake joint activities, and provide input for continuous improvement of the College's academic program.

STIMULATING the intellectual growth of College of Business Administration students in the theory and practice of information management through their direct participation in Center activities and through internships at CRIM partner firms, as well as by encouraging the exchange of executives-in-the-classroom and professors in the workplace.

Partners:

UIC Business Administration

AT&T Inc.

University Affiliates Fund

Contacts:

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Dates Active:

1998—present

(see also *Urban Infrastructure Improvement*)

Center for the Advancement of Distance Education

The Center for the Advancement of Distance Education (CADE) is a self-supporting unit within the School of Public Health at the University of Illinois at Chicago. CADE partners or contracts with university, government and non-profit organizations to provide web-based solutions to meet a variety of educational, training, research and administrative needs within the health sciences. These collaborations include the creation of interactive online training modules, the design and development of web sites, multimedia production and webcasting, course registration and learning management system construction, web-based programming and database connectivity, and online data gathering and analysis.

CADE is actively involved in advancing online opportunities in the areas of public health, medicine, oral health, pharmacy and nursing. The Center's experience ranges from online continuing education and professional training to multimedia webcasting and research data management, analysis and presentation. CADE employs over thirty personnel, operates dozens of its own servers, and has completed hundreds of unique online projects since its formal inception.

Partners:

UIC Public Health

Association of Maternal and Child Health Programs (AMCHP)

Association of Schools of Public Health (ASPH)

Centers for Disease Control and Prevention

Chicago Department of Public Health

Gilead Outreach and Referral Center
Health Systems Research, Inc.

Horizon Hospice, Inc.

Illinois Department of Public Health

Illinois Environmental Protection Agency

Contacts:

Colleen Monahan

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Dates Active:

1998—present

(see also *Health and Wellness*)

Chicago Industrial Trend Report

Analysis of competitive factors effecting the retention and expansion of Chicago manufacturing establishments and policy alternatives for stabilizing the manufacturing sector.

Partners:

UIC Urban Planning and Public Affairs
Chicago Department of Planning
and Development
Commonwealth Edison Company
Rockefeller Foundation
United States Department of Commerce
World Business Chicago

Contacts:

Nik Theodore

Director, Center for Urban
Economic Development

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Comparative Survey Design and Implementation Work Group

The goal of this international working group is to advance knowledge relevant to the design and implementation of cross-cultural and cross-national comparative survey research. Annual workshops are hosted by various work group members to share new knowledge and experiences.

Partners:

UIC Urban Planning and Public Affairs

Contacts:

Timothy P. Johnson

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Designing Ergonomic Interventions for the Fire Service

The fire service remains one of the most hazardous industries in this country with its work-related injury rates and total annual costs exceeding those for most other occupations. Consistently over the years, musculoskeletal injuries are the major type of firefighter injury particularly in emergency medical service (EMS) operations, which are much more frequent than fire suppression. The tasks performed during EMS runs contain many of the same risk factors associated with musculoskeletal injury as in other occupations including: lifting, bending, pulling, twisting, awkward postures, and heavy workloads. The purpose of this research study is to develop and evaluate up to ten ergonomic interventions that reduce biomechanical loads and are considered worthy of adoption for use by the workers who perform emergency medical/rescue (EMS) operations. We are using a participatory ergonomic process, engaging fire chiefs and firefighter/paramedics throughout the study.

Partners:

UIC Public Health
National Institute for Occupational Safety
and Health (NIOSH)

Contacts:

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Dates Active:

September 2002–August 2005

Electronic Visualization Laboratory (EVL)

EVL is an interdisciplinary graduate research laboratory that combines art and computer science, specializing in virtual reality, visualization and high speed networking, and represents the oldest formal collaboration between engineering and art in the country offering graduate degrees in visualization (MFA, MS, PhD). Having received worldwide recognition for developing the original CAVE® and ImmersaDesk® virtual-reality systems, EVL's current research focus is grounded in collaborative visualization and virtual reality, having users in different locations around the world work together over ultra-high-speed networks in shared, virtual environments, as if they were together in the same room.

Partners:

UIC Architecture and the Arts	National LambdaRail
UIC Engineering	National Science Foundation
Argonne National Laboratory, Mathematics and Computer Science Division	Northwestern University, International Center for Advanced Internet Research (iCAIR)
California Institute for Telecommunications and Information Technology (Calit2)	NTT Network Innovation Laboratories SURFnet b.v.
CANARIE, Inc.	University of Illinois at Urbana-Champaign, National Center for Supercomputing Applications (NCSA)
General Motors Corporation, Research and Development	University of Tokyo, VRCO Inc.
GeoWall Consortium	
Glimmerglass Networks, Inc.	

Contacts:

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and the Arts

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Dates Active:

1973—present

Emerging Scholars Program

Provides financial assistance to qualified applicants, mostly from Chicago Public Schools, who have been admitted to the undergraduate business program. The program will initially provide twenty incoming freshmen scholarships of \$4,000 each per year for four years. In addition, scholarship winners will be assigned a mentor from Wal-Mart or Sam's Club to help guide them toward their career goals and consideration for summer internships with Wal-Mart.

Partners:

UIC Business Administration
Wal-Mart Stores, Inc.

Contacts:

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Business Administration

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Dates Active:

Fall 2005—present

(see also Undergraduate Support)

Energy Resources Center (ERC)

ERC is an interdisciplinary public service, research, and special projects organization dedicated to improving energy efficiency and the environment. ERC was established in 1973 by the Board of Trustees as an approved Illinois Board of Higher Education center with a mandate to conduct studies in the fields of energy and the environment and to provide industry, utilities, government agencies and the public with assistance, information, and advice on new technologies, public policy, and professional development training.

The Center was created as a “fast response” team of experts capable of quickly extending technical expertise, advice, and professional assistance to organizations in need of the Center’s resources.

Partners:

UIC Engineering	Commonwealth Edison Company
American Council for an Energy Efficient Economy	Electric Power Research Institute
American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)	Midwest Energy Efficiency Alliance (MEEA)
Association of State Energy Research and Technology Transfer Institutions (ASERTTI)	National Association of State Energy Officials (NASEO)
BP Foundation	National Energy Management Institute
	Nicor, Inc.

Contacts:

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Dates active:

1973–present
(see also Environmental Protection)

Evaluation of Smart Mark Safety and Health: Training for Construction Workers

Construction remains among the most hazardous of occupations, and both industry and labor are currently expending significant resources to provide training. Examination of the significant effects of training may help to revise, expand, or otherwise improve both training programs and the measurement of their effects. The main objectives are to evaluate trainees who have completed the Smart Mark training program to determine whether impact on knowledge, attitudes and self-reported practices are statistically significant and lasting. In addition, the project will explore the feasibility of assessing most recent job safety climate and three-month self-reported hazard, illness and injury information.

Partners:

UIC Public Health
Center to Protect Workers’ Rights
United Association of Journeymen and Apprentices of the Plumbing and Pipefitting Industry of the US and Canada
United Union of Roofers
Waterproofers and Allied Workers

Contacts:

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Dates Active:

July 2004–June 2007

Industrial Assessment Center (IAC)

UIC is a designated U.S. Department of Energy (USDOE) Office of Industrial Energy Technologies Industrial Assessment Centers (IAC). Along with twenty-six other universities across the United States, UIC now offers no cost industrial assessments. These assessments are performed by students from various engineering disciplines. Energy conservation, waste minimization and process improvement recommendations have resulted in an average annual savings of nearly \$59,000 per plant assessment.

Each assessment includes:

- Measurement of combustion efficiency for all fuel burning equipment
- Measurement of electric motor operating parameters
- Evaluation of compressed air and steam systems
- Inventory of all ancillary energy users within the plant
- Development of a process flow map

Partners:

UIC Engineering
Illinois Commerce Commission
Nicor, Inc.
Rutgers University
United States Department of Energy,
Office of Industrial Technologies

Contacts:

William Worek
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Dates active:

2001—present
(see also *Environmental Protection*)

International Center for Futures and Derivatives

Foster research, education and innovation in futures and derivatives; leverages existing connections between UIC, China and Chicago's financial exchanges; promotes a greater understanding of the role futures and derivatives play in risk management and economic growth; and prepares students for successful careers in futures and derivatives.

Partners:

UIC Business Administration
Chicago Mercantile Exchange

Contacts:

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for Futures and Derivatives
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Email: gib@uic.edu

Dates active:

2006—present
(see also *Business and Entrepreneurial Development*)

John H. Stroger, Jr. Hospital of Cook County Academic Center Library Web site Hosting

Helps the Cook County Hospital Academic Center Library make its resources available through the Internet.

Partners:

UIC University Library
John H. Stroger, Jr. Hospital of Cook County,

Contacts:

Mary Case
University Librarian
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Midwest Combined Heat and Power Applications Center (MAC)

The Midwest CHP Application Center promotes the development and deployment of integrated systems that provide on-site electrical generation and utilize the heat from the generation equipment to provide cooling and/or heating for the building. The Center serves to identify and promote the use of viable CHP technologies and systems in applications where they can increase energy efficiencies, reduce operating costs, reduce electrical loads on the utility electrical grid in areas where it is taxed, and shave peak load demands from the grid. The Application Center will serve to bring together manufacturers, utilities, building operators, research and development organizations, industry associations, energy service companies, architects and engineers, and national laboratory personnel to promote on-site and near site power generation, energy recovery, and energy management and utilization for commercial, institutional, multifamily and community based buildings.

Partners:

UIC Engineering	Minnesota Public Utilities Commission
City of Chicago	Nicor, Inc.
Gas Technology Institute (GTI)	Public Utilities Commission of Ohio
Illinois Commerce Commission	United States Department of Energy
Indiana Utility Regulatory Commission	United States Environmental Protection Agency
Iowa Department of Natural Resources	Wisconsin Public Service Commission

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Dates active:

2001–present
(see also *Environmental Protection*)

Modeling and Control of Robotic Manipulators with Flexible Links and Joints

Work on a collaborative research project with Cairo University in Egypt to develop new nonlinear dynamic and control techniques for modeling the motion of flexible robot manipulators.

Partners:

UIC Engineering
Cairo University
National Science Foundation
US Egypt Joint Science and Technology Fund

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National Center for Data Mining (NCDM)

NCDM was established to serve as a resource for research, standards development, and outreach for high performance and distributed data mining and predictive modeling. The Center focuses on three research areas:

Scaling algorithms, applications and systems to massive data sets.

Developing algorithms, applications, and systems for mining distributed data.

Establishing standard languages, protocols, and services for data mining and predictive modeling.

Partners:

UIC Liberal Arts and Sciences

National Science Foundation

United States Army

United States Department of Energy

Contacts:

Robert Grossman

Director, National Center for Data Mining

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Dates Active:

1998—present

National Center for Energy Management and Building Technologies

NCEMBT supports research, participates in standards-setting, advances technical training and professional education, and serves as a repository of information on economic, technical, and public policy issues. The National Center will improve the efficiency, productivity and security of the US building stock by developing and disseminating synergistic and complementary solutions to energy management, indoor environmental quality, and security concerns in new and existing buildings. The Center acts as a resource to Federal agencies, state and local governments, building owners, the HVAC industry and consumers.

Partners:

UIC Engineering

National Energy Management Institute

Sheet Metal and Air Conditioning

Contractors National Association

Sheet Metal Workers International Association

Syracuse University

University of Nevada—Las Vegas

University of Pennsylvania

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Interim Dean, College of Engineering

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Email: nelson@uic.edu

Noncredit Certificate in CHDO Management

Through a partnership with Housing Urban Development, Training and Development Associates, and Professional Education GCI, this program focuses on increasing the capacity of Community Housing Development Organizations (CHDOs) nationwide through a combination of online and face-to-face training. Individuals completing the program will receive a non-credit Certificate in CHDO Management from the University of Illinois at Chicago (UIC) and recognition from the U.S. Department of Housing and Urban Development (HUD) and Training & Development Associates (TDA) as a Certified CHDO Professional. The program is structured around a core body of knowledge in nonprofit management and federal CHDO requirements. Those completing the program will have sufficient knowledge and skills to advance themselves and their organizations within the field of affordable housing.

Partners:

UIC Great Cities Institute

Training and Development Associates

Contacts:

John Mudd

Associate Director,
Professional Education Program,
Great Cities Institute

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Dates active:

May 2006—present

(see also Education Innovation)

OptIPuter

The OptIPuter is a National Science Foundation-funded project to enable scientists who are generating massive amounts of data to interactively visualize, analyze, and correlate their data from multiple storage sites connected via ultra-high-speed networks. OptIPuter partners are currently designing and developing a set of unique software services to support data-intensive science applications. These services utilize highly distributed resources, such as compute clusters, mass storage systems, visualization systems, and parallel optical communications channels. EVL's contribution is the Scalable Adaptive Graphics Environment (SAGE), which manages the information shown on large tiled displays. The OptIPortal is a 21st-century PC, and SAGE serves as a windows manager, enabling users to bring up multiple windows for streaming media, web browsing or PowerPoint presentations.

Partners:

UIC Engineering

CANARIE, Inc.

Communications Research Centre Canada

Korea Institute of Science and Technology Information (KISTI)

National Aeronautics and Space Agency (NASA)

National Institute of Advanced Industrial Science and Technology (AIST)

National Science Foundation

Northwestern University

Purdue University

San Diego State University

SARA Computing & Networking Services

Texas A&M University

United States Geological Survey,
National Center for Earth Resources
Observation and Science (EROS)

University of Amsterdam

University of California—Irvine

Contacts:

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Dates Active:

2002–2007

University of California—San Diego,
Scripps Institution of Oceanography,
School of Medicine

University of Illinois at Urbana-Champaign,
National Center for Supercomputing
Applications

University of Michigan

University of Southern California,
Information Sciences Institute

Pharmacy Benefit Management Oversight

United Food and Commercial Workers Union (UFCW) covers over 350,000 lives in Chicago area. The UIC College of Pharmacy Drug Information Center provides pharmacy benefit management oversight to these patients. This includes formulary review and management, drug use review, and disease state management.

Partners:

UIC Pharmacy

United Food and Commercial
Workers Union (UFCW)

Contacts:

Michael Gabay

Director, College of Pharmacy Drug
Information Center

Phone: 312.996.0448

Email: mgabay@uic.edu

Dates Active:

2004—present

Plant Collections and Taxonomy, Task B, Southeast Asia, Herbarium Collection

In conjunction with the Field Museum of Natural History, plant samples are collected from Southeast Asia and Central America and placed in an herbarium at the museum for scientific use. Other samples go to the National Cancer Institute for analysis for possible active agents for cancer prevention and/or treatment. Analysis is also done in the College for the drug discovery process.

Partners:

UIC Pharmacy

Field Museum of Natural History

National Cancer Institute

Contacts:

Djaja Soejarto

Director, Pharmacognosy Field Station

Phone: 312.996.8889

Email: dds@uic.edu

(see also *Biotechnology*)

PREFAB

The first prefabricated houses in the city of Chicago are being designed and will be erected by May 2007. In conjunction with UIC School of Architecture, Barron Development, The City of Chicago and Stratford Homes of Wisconsin, students are designing via Building Information Modeling software (BIM) an automatic construction of three townhomes in the near west side. Clinical Associate Professor William Worn, lead professor with third-year masters students.

Partners:

UIC School of Architecture	Local Alderman
City of Chicago, Department of Planning	Michele Litvin
City of Chicago, Department of Environment	Photographer, Barron Development
City of Chicago, Department of Housing	Stratford Homes
City of Chicago, Department of Permits	Worn Jarebek Architects
Local Community Groups	

Contacts:

Dan Wheeler, FAIA
Interim Director,
School of Architecture, UIC
Phone: 312.996.4056
Email: wheelerd@uic.edu

Dates Active:
Spring 2007

School of Architecture Entrepreneurial Elective: Design of Business

This interdisciplinary course involved partnering students from Architecture, Graphic Design and Industrial Design in developing entrepreneurial skills to design a design business, including business planning and design/product/architectural development.

Using UIC graduate Jordan Mozer as lead adjunct professor, students designed a business and worked with Levy Enterprises in real life situations, designing for the food/entertainment industry.

Partners:

UIC School of Architecture
UIC School of Art and Design
UIC College of Business Administration
UIC Center for Entrepreneurial Studies
Jordan Mozer
Levy Enterprises
Mozer and Associates
Thomas Rossiter, FAIA

Contacts:

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School of Architecture
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Email: wheelerd@uic.edu

Dates active:
Spring 2007

(see also Business and Entrepreneurial Development)

State of Illinois Drug Formulary Review

The Illinois Department of Healthcare and Family Services spends approximately 1.53 billion dollars annually on drugs for Medicaid patients. For the last 1.5 years, IDPA has contracted with UIC College of Pharmacy Drug Information Center to review the drug formulary and make recommendations that would lead to potential cost savings while still providing an appropriate drug benefit for patients at need. Over this time period, the DIC has identified over \$80 million in cost savings for the Department.

Partners:

UIC Pharmacy
Illinois Department of Healthcare
and Family Services

Contacts:

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Information Center
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Survey Research Laboratory

Provides survey research services to the faculty, staff, and students of UIC and UIUC, as well as other academic institutions; local, state, and federal agencies; and others working in the public interest. Can undertake complete survey projects from initial study design through data analysis, or may conduct partial survey work such as sampling, questionnaire design, focus groups, data collection, instrument programming, and data reduction. Can provide consultation on survey problems on a fee-for-service basis.

Partners:

UIC Urban Planning and Public Affairs
University of Illinois at Urbana-Champaign

Contacts:

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Dates Active:

1964—present

TransLight/StarLight

TransLight/StarLight, part of the National Science Foundation's International Research Network Connections (IRNC) program, provides ultra-high-speed networking infrastructure that interconnects U.S. and European research and education networks, to best serve established U.S. and European production science.

Partners:

UIC Engineering
Argonne National Laboratory,
Mathematics and Computer Science Division
CANARIE, Inc.,
National Science Foundation, International
Research Network Connections Program
Northwestern University, International Center
for Advanced Internet Research
SURFnet b.v.

Contacts:

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Dates Active:

2005—2010

UIC Athletics Corporate Assist Program

Select UIC Athletics corporate sponsors purchase and donate tickets and bus transportation to not-for-profit organizations in the Chicagoland area, allowing them to attend home basketball games at no expense.

Partners:

UIC Vice Chancellor for Student Affairs
Credit Union 1
PepsiCo, Inc.
United Parcel Service, Inc.

Contacts:

Barbara Henley
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Dates Active:

1997—present

UIC Interdisciplinary Product Development

The UIC Interdisciplinary Product Development program is a two-semester curriculum for advanced Industrial Design, Mechanical Engineering, and Business Marketing students who work together in cross-functional teams to research and develop new product concepts. The program integrates the latest technologies and best practices of all three disciplines. Focusing on the early stages of the product development process from identifying market opportunities through initial prototyping students, led by faculty from Art and Design, Engineering, and Business, research and develop new product concepts for client sponsors who have included Copco, Rehco, Motorola, Pactiv, and Whirlpool.

Partners:

UIC Architecture and the Arts	Rehco
UIC Business Administration	Motorola
UIC Engineering	Pactiv
Copco	Whirlpool Corporation

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Albert L. Page, PhD

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Michael J. Scott, PhD

Associate Professor,
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Dates active:

August 2002—ongoing

(see also *Business and Entrepreneurial Development*)