

March 21, 2024

Phil Roos
Director
Michigan Department of Environment, Great Lakes, and Energy
525 West Allegan Street
Lansing, MI 48933

Subject: University of Illinois Chicago Support of the State of Michigan's CPRG Coalition Proposal for the Midwest Industrial Decarbonization Challenge, (Award Number EPA-R-OAR-CPRGI-23-07)

Dear Director Roos,

We, the University of Illinois Chicago, affirm our commitment to work with the State of Michigan in its partnership with states of Illinois, Minnesota, Ohio and Wisconsin to carry out a regional effort to reduce industrial emissions in response to EPA-R-OAR-CPRGI-23-07. We are pleased to endorse the Midwest Industrial Decarbonization Challenge objective to reduce greenhouse gas (GHG) emissions from the region's top polluting, hard-to-decarbonize industries.

We understand the role the application contemplates we will play as a university research entity. We are ready, willing and able to carry out the roles and responsibilities contemplated should we enter into a contract with the Michigan Department of Environment, Great Lakes, and Energy (Michigan EGLE) in the event EPA awards the grant for the Midwest Industrial Decarbonization Challenge to the State of Michigan. Through the Midwest Industrial Decarbonization Challenge program period, we anticipate collaborating with Michigan EGLE and the State of Illinois to deliver incentives programs to reduce industrial GHG emissions, including but not limited to industrial energy efficiency, fuel-switching, and innovative technologies. Our commitment extends to supporting program development and implementation of industrial emission reduction strategies.

The proposed GHG reduction measures will achieve significant cumulative GHG reductions, provide substantial community benefits in low-income and disadvantaged communities, and complement other funding sources to maximize both GHG reductions and community benefits. Because many industrial facilities are located in or upwind of low-income and disadvantaged communities (LIDAC), we know that improvements to the environmental performance of industrial facilities in the region will bring benefits to LIDAC communities. We understand that the states in the coalition are committed to achieving such benefits.

We understand industrial decarbonization because we work with industrial facilities in Illinois and the regional states of Michigan, Minnesota, Ohio and Wisconsin to provide technical and analytical support, including assessments of measures that can be undertaken at those facilities to reduce the use of fossil fuels and otherwise reduce emissions, often saving money in the process. The role anticipated for us under the Midwest Industrial Decarbonization Challenge is a natural scaling-up of the work we are already



doing providing technical assistance to these industrial facilities in Phase 1. In addition, our institution is ready to lead the Phase 2 activities, overseeing and managing the competitive grant-making process of this proposal.

The University of Illinois Chicago (UIC), located in Chicago, Illinois, is an acclaimed research institution with 16 colleges dedicated to the discovery and distribution of knowledge. UIC provides the broadest access to the highest levels of intellectual excellence with UIC's mission to: create knowledge that transforms our views of the world and, through sharing and application, transforms the world; provide a wide range of students with the educational opportunity only a leading research university can offer; address the challenges and opportunities facing not only Chicago but all Great Cities of the 21st century, as expressed by our Great Cities Commitment; foster scholarship and practices that reflect and respond to the increasing diversity of the U.S. in a rapidly globalizing world; and train professionals in a wide range of public service disciplines, serving Illinois as the principal educator of health science professionals and as a major healthcare provider to underserved communities.

The UIC Office of the Vice Chancellor for Research (OVCR) advances and safeguards all research through a number of specialized units that together facilitate and ensure the integrity of exceptional research at UIC. One of the units is the OVCR Office of Sponsored Programs (OSP). OSP manages all sponsored projects throughout the complete lifecycle from proposal submission through award close-out. The OSP is experienced in the execution and management of large-scale consortium activities with an average of approximately 450 outgoing subawards annually for the past 5 fiscal years and in excess of 40 unique subawards under a single sponsored project. The OVCR also houses a university-wide shared grants management office, offering pre- and post-award services to researchers in the colleges and schools. Additionally, the OVCR has various compliance and administrative offices that oversee research integrity, research data and research involving human subjects, vertebrate animals, biosafety concerns, proposal development, post-doctoral student support, and a number of other institutes and centers. Collectively, the OVCR promotes excellence in research, fosters relationships with external collaborators, and invests in shared infrastructure to advance research and innovation.

The UIC's Energy Resources Center (ERC) is an interdisciplinary public service, applied research, and special projects organization that strives to provide solutions to today's energy and environmental challenges and opportunities. The ERC, based out of the UIC College of Engineering, provides expertise in the areas of bioenergy, energy efficiency, distributed generation and renewables, utility data analytics, sustainable landscapes, clean transportation and workforce development. Originally created to be a "fast response" team of experts, the ERC currently provides technical assistance, sophisticated modeling capabilities, educational outreach, and program implementation across the public and private sectors. The ERC is committed to providing the most comprehensive and up-to-date solutions to the energy and environmental problems affecting institutional, industrial, residential, and commercial sectors. The ERC is staffed by a uniquely diverse and highly experienced group of professional engineers, economists, architects, computer scientists, educators, and public policy analysts. UIC, through the ERC, has significant experience implementing both industrial energy assessments and managing energy related competitive grant applications programs. UIC has conducted more than 300 industrial assessments

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through the U.S. Department of Energy's Industrial Assessment Center (IAC).¹ UIC has managed several competitive grant application programs for the Illinois Department of Commerce and Economic Opportunity (DCEO), including the Illinois Biomass and Biogas to Energy Grant Program and the Illinois Public Sector Combined Heat and Power Pilot State Grant Program.^{2,3}

We have considerable expertise in this area. Attached to this letter are the short bios and resumes of our leadership and principal staff:

- Cliff Haefke, Director, UIC-ERC – Mr. Haefke will serve as the primary representative from UIC, overseeing the overall management of the project.
- Marcello Pibiri, Senior Research Engineer, UIC-ERC – Mr. Pibiri will oversee Phase 1 of the proposed grant program, the technical assistance activities provided to the industrial facilities.
- Graeme Miller, Senior Research Specialist, UIC-ERC – Mr. Miller will oversee Phase 2 of the proposed grant program, the competitive grant program.
- Ben Campbell, Principal Research Engineer, UIC-ERC – Mr. Campbell will provide technical support throughout both phases of the proposed program.
- Jennifer Klemundt, Assistant Director of Research Services, UIC-ERC – Ms. Klemundt will provide support and connections to the relevant offices on campus for contract management.

We are enthusiastic about partnering with the Michigan Department of Environment, Great Lakes, and Energy to advance the goals of the U.S. Environmental Protection Agency through this pivotal program.

Sincerely,

A handwritten signature in black ink, appearing to read "Cliff Haefke".

Principal Investigator (PI) - Cliff Haefke, Director, Energy Resources Center, University of Illinois Chicago

A handwritten signature in purple ink, appearing to read "Peter Nelson".

Peter Nelson, PhD, Dean, College of Engineering, University of Illinois Chicago

A handwritten signature in black ink, appearing to read "Joanna Groden".

Joanna Groden, PhD, Vice Chancellor for Research, University of Illinois Chicago

¹ <https://iac.university/center/IC>

² <https://www.energy-grants.net/dceo-biogas-and-biomass-to-energy-grant-program/>

³ <http://www.energy-grants.net/il-public-sector-combined-heat-and-power-pilot-state-grant-program/>

Short Bios

Cliff Haefke

Director, UIC Energy Resources Center

Cliff Haefke has over 20 years of experience in the energy industry and is the Director of the Energy Resources Center (ERC) at the University of Illinois Chicago (UIC). The ERC is an interdisciplinary public service, research, and special projects organization that strives to improve energy efficiency and the environment, providing expertise in the areas of energy efficiency, distributed generation, combined heat and power, bioenergy, sustainable transportation, utility data analytics, and sustainable landscapes. As Director of the ERC, Cliff oversees the Center's strategic direction, has overseen the securement of over \$30M in new research, serves as Director of the U.S. DOE Midwest and Central Combined Heat and Power Technical Assistance Partnerships, and serves as an Assistance Director of UIC's U.S. DOE Industrial Assessment Center. Cliff also serves as President of the Midwest Cogeneration Association and on the Board of the Midwest Energy Efficiency Alliance. Cliff has a Bachelor's Degree in Mechanical Engineering from UIC and a Master's Degree in Business Administration from the UIC Liautaud Graduate School of Business.

Marcello Pibiri

Senior Research Engineer, UIC Energy Resources Center

Marcello Pibiri serves as Senior Research Engineer at the Energy Resources Center (ERC) an interdisciplinary public service, research, and special projects organization that works to advance energy sustainability and improve the environment, based out of the College of Engineering at the University of Illinois Chicago. Marcello is the Program Manager for UIC's industrial programs including the U.S. Environmental Protection Agency's Pollution Prevention (P2) grant supporting industrial manufacturers seeking pollution prevention measures. Marcello also has experience as the Outreach Coordinator for the Water/Wastewater Treatment Plant and K-12 Schools ComEd Energy Efficiency Incentive Program and the Program Manager of the Technical Education and Analysis for Community Hauling and Anaerobic Digesters (TEACH AD), a program that helps WRRFs by providing education and technical assistance to explore the increased adoption of anaerobic digestion and renewable energy biogas technologies. Marcello as a member of the ERC's Energy Efficiency team supports several technical, energy, and environmental initiatives at the ERC, conducting research and evaluating energy savings opportunities for clients. Prior to joining the Energy Resources Center, Marcello worked for several years in the project management of electrical and technological installations. Marcello holds a Master's Degree in Energy Engineering from the University of Illinois at Chicago and a Bachelor's Degree in Electrical Engineering from the Università degli Studi dell'Aquila in Italy.

Graeme Miller**Senior Research Specialist, UIC Energy Resources Center**

Graeme Miller is a Senior Research Specialist at the Energy Resources Center (ERC)— an interdisciplinary public service, research, and special projects organization that works to advance energy sustainability and improve the environment, based out of the College of Engineering at the University of Illinois Chicago. At the ERC, Mr. Miller serves as the assistant director of the US Department of Energy's Midwest Combined Heat and Power Technical Assistance Partnership where he leads technical assistance and stakeholder engagement activities. Mr. Miller focuses on identifying, quantifying, and addressing barriers to clean distributed generation technologies such as combined heat and power (CHP), waste heat to power (WHP), district energy (DE), and energy efficiency (EE) installations. In his decade plus tenure at the ERC, Mr Miller has collaborated with regulatory and utility stakeholder across the Midwest to address barriers to on-site generation. His current research is focused on modelling how Combined Heat and Power, and Waste Heat to Power technologies can promote industrial decarbonization.

Ben Campbell**Principal Research Engineer, UIC Energy Resources Center**

Ben Campbell is a principal research engineer at the Energy Resources Center (ERC)—an interdisciplinary public service, research, and special projects organization that works to advance energy sustainability and improve the environment, based out of the College of Engineering at the University of Illinois Chicago. Ben has extensive experience energy efficiency, renewable energy, and distributed power generation through management of several programs for the State of Illinois, local utilities, and the Department of Energy. Ben closely follows emerging technologies, market trends, and best practices in the energy industry and pursues novel research funding opportunities. Ben is an advocate for sustainability, energy use awareness, energy efficiency, renewable fuels, high efficiency power generation, and carbon and emissions reductions. Prior to working with the Energy Resources Center, Ben has experience working in manufacturing, information technology, management, and customer service.

Jennifer Klemundt**Assistant Director of Research Operations, UIC Energy Resources Center**

Jennifer Klemundt has worked at the Energy Resources Center since 2004 at the Energy Resources Center(ERC)—an interdisciplinary public service, research, and special projects organization that works to advance energy sustainability and improve the environment, based out of the College of Engineering at the University of Illinois Chicago. She started as a Project Coordinator on the IL Department of Central Management Services Utility Demand Management Billing and Auditing Program. Since 2013, Jennifer Klemundt has served as an Assistant Director of Research Operations at the Energy Resources Center (ERC) which is an interdisciplinary public service, research, and special



projects organization that works to advance energy sustainability and improve the environment, based out of the College of Engineering at the University of Illinois Chicago. She manages and tracks all proposals, contracts, and department financials. She also manages the Utility Management/Auditing and State Utility Database programs for the Illinois Department of Central Management Services. The Utility Management program insures verification of electricity and natural gas deregulated accounts for State Agencies receiving third-party supply through the State Bulk Procurement Program. The State Utility Database program provides a repository of usage and cost data for major utility companies for all State facilities and accounts. This allows for the tracking and reporting for all State facilities by authorized users. She has also assisted the Illinois Department of Central Management Services with completing benchmarking as required by the City of Chicago ordinance since 2014.

CLIFFORD P. HAEFKE

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The Energy Resources Center, based out of the College of Engineering at the University of Illinois Chicago, is an interdisciplinary public service, research, and special projects organization that works to advance

EDUCATION

LIAUTAUD GRADUATE SCHOOL OF BUSINESS, UNIVERSITY OF ILLINOIS CHICAGO

Master of Business Administration

Chicago, IL

2003 – 2006

UNIVERSITY OF ILLINOIS CHICAGO

Bachelor of Science in Mechanical Engineering

Chicago, IL

1995 – 1999

EXPERIENCE

ENERGY RESOURCES CENTER (ERC), UNIVERSITY OF ILLINOIS CHICAGO (UIC)

Chicago, IL

Director

2015 – Present

- Oversees all operations and strategic direction of the ERC covering the five research areas of Energy Efficiency, Distributed Energy and Renewables, Bioenergy, Clean Transportation, Utility Data Analytics, and Sustainable Landscapes.
- Managed \$35M+ of new business development research initiatives from federal government, state government, national laboratories, investor owned utilities, foundations, associations, and private sector entities.
- Supervised mentorship of 80+ student interns in the fields of energy efficiency, distributed energy, and environment.
- Serves as the Director of the US DOE's Midwest and Central CHP Technical Assistance Partnerships developing program strategies, educating stakeholders, and providing technical assistance to assist the market transformation of combined heat and power (CHP).
- Serves as the Assistant Director of UIC's US DOE Industrial Assessment Center that provides no-cost energy, productivity, and waste assessments to small and medium sized US manufacturers and providing student workforce development in the energy sector.

Academic Instructor

2004 – Present

- Instructor for ENER424 Industrial Energy Management and ENER420 Combined Heat & Power, Design & Management.
- Co-developed graduate level semester course curriculum and materials for Combined Heat and Power, Management and Design (for UIC Master of Energy Engineering Program).
- Serves on the Advisory Council of UIC's Master of Energy Engineering Program

Principal Research Engineer

2011 – 2014

- Lead senior level staff member for the ERC's Distributed Generation Research Area and key contributor to Center's planning development, strategic focus, and grant writing.
- Senior level program manager for the U.S. DOE's Midwest CHP Technical Assistance Partnership (TAP) developing program and marketing strategies, educating stakeholders, overseeing feasibility evaluations and technical assistance.
- Secured funding state energy offices to provide analytic support leading to changes in net metering, grid interconnection, standby rates, and grant and incentive programs.

Senior Energy Engineer

2007 – 2011

- Senior research engineer for the U.S DOE Midwest Clean Energy Application Center managing daily operations and overall project management with U.S. DOE. Developed and implemented presentations, organized workshops and conferences, completed analysis for technical papers, and oversaw the implementation of technical and economic feasibility studies.
- Program Manager for the U.S. DOE and NASEO sponsored Midwest Buildings Technology Application Center (MBTAC) program providing information, education, and technical assistance in areas of energy efficiency to commercial and institutional markets.

Research Engineer

2000 – 2007

- Implemented technical and economic feasibility studies evaluating potential distributed energy, assisted development of state distributed energy roadmaps, and evaluated impacts of new natural gas R&D programs.

ADDITIONAL INFORMATION

External Leadership Roles

- President, 2012-Present, Midwest Cogeneration Association (MCA)
- Advisory Council, 2015-Present, UIC Master of Energy Engineering (UIC-MEE)
- Board Member, 2019-Present, 2015-2016, Midwest Energy Efficiency Alliance (MEEA)

Awards

- CHP Champion, awarded by the United States CHP Association (USCHPA), December 2013
- CHP Champion, awarded by the Combined Heat and Power Alliance (CHPA), September 2021

MARCELLO PIBIRI

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**ENERGY RESOURCES
CENTER**

The Energy Resources Center, based out of the College of Engineering at the University of Illinois Chicago, is an interdisciplinary public service, research, and special projects organization that works to advance energy sustainability and improve the environment.

EDUCATION

University of Illinois at Chicago

Master Degree of Energy Engineering

Chicago, IL

December 2016

Università' degli studi di L'Aquila

Bachelor Degree in Electrical Engineering

L'Aquila, Italy

December 2005

EXPERIENCE

UNIVERSITY OF ILLINOIS AT CHICAGO – ENERGY RESOURCES CENTER

Chicago, IL

Senior Research Engineer

August 2021 – Present

- Outreach Coordinator for the Water/Wastewater Treatment Plant and K-12 Schools ComEd Incentive Programs. Main tasks for this position include marketing and technical outreach, acting as point of contact for clients participating in the ComEd Energy Efficiency Program, identification and technical evaluation of new energy efficiency opportunities for the client and review of eligibility for incentives, coordination of outreach activities of a team of 3 to 6 individuals, KPIs progress reporting, energy savings calculations.
- Program Manager of the new EPA funded Technical Education and Analysis for Community Hauling and Anaerobic Digesters Program. Main tasks include coordination of team's activities, technical assessments of anaerobic digestion systems, outreach and education activities including webinars and workshops, preparation of case studies documents.
- Support the U.S. DOE's Midwest CHP Technical Assistance Partnership and the U.S. DOE Industrial Assessment Center with the preparation of CHP feasibility studies and the performance of energy assessments for wastewater treatment facilities.

Energy Engineer

June 2016 – July 2021

- Outreach Coordinator for the Water/Wastewater Treatment Plants ComEd Incentive Programs. Main tasks for this position include marketing and technical outreach, acting as point of contact for clients participating in the ComEd Energy Efficiency Program, identification and technical evaluation of new energy efficiency opportunities for the client and review of eligibility for incentives, KPIs progress reporting, energy savings calculations.
- Management of Public Sector Boiler System Efficiency Program: the program provides incentives for the implementation of projects focused on increasing the efficiency of natural gas boiler systems. Main tasks for this position include technical assistance of potential applicants, applications review, calculation of energy savings, marketing, and outreach.
- Energy assessments for public sector facilities in Illinois that include utility bill analysis, on site walkthrough to collect information, energy modeling, and economic analysis of energy cost reduction measures.
- Management of Clean Water Incentive Program from June 2017 until December 2017. Main tasks for this position include marketing and outreach, acting as a point of contact for the client regarding submission of applications, leveraging funding opportunities, and introducing new projects through other entities such as the Industrial Center Assessment, the Environmental Protection Agency, and the Illinois Clean Energy Community Foundation.
- Development of the 2016 ASERTII National Guide to Energy Research Centers: contacted more than 200 Energy Research Centers across the nation and organized the collected data.

ADDITIONAL INFORMATION

Awards

- U.S. Department of Energy Water Resource Recovery Prize – Phase 1

Technical Skills and Competencies

- Software: Salesforce, Autocad, BTicino TSystems, Integra (electrical calculation software), eQuest, C programming language, Labview, Matlab, Office Word, Office Excel, Office PowerPoint
- Basic Practical experience in cabling electrical panels

GRAEME MILLER

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EDUCATION

COLLEGE OF URBAN PLANNING AND PUBLIC AFFAIRS, UNIVERSITY OF ILLINOIS CHICAGO
Master of Urban Planning and Policy

Chicago, IL
2009 – 2011

GRINNELL COLLEGE
Bachelor of Arts in Music, with honors, and History

Grinnell, IA
2002 – 2006

EXPERIENCE

ENERGY RESOURCES CENTER (ERC), UNIVERSITY OF ILLINOIS CHICAGO (UIC)

Chicago, IL

Senior Research Specialist

2018 – Present

- Serves as the Assistant Director of the U.S. DOE's Midwest CHP Technical Assistance Partnership (TAP) developing program and marketing strategies, educating stakeholders, overseeing feasibility evaluations and technical assistance to promote and assist in transforming the market for CHP, WHP, and district energy with CHP. Supports state led CHP initiatives, maintains relations with U.S. DOE program sponsors in Washington DC, and oversees the development of all program deliverables.
- Collaborates with trade and policy organizations such as the US CHP Alliance, National Association of State Energy Officials, Midwest Cogeneration Association, Ohio Center for Industrial Energy Efficiency, to advance policies supporting clean distributed energy generation.
- Analyzed CHP feasibility at over 20 sites in the Midwest region, including all financial modelling, prime mover performance modelling, utility tariff modelling, and environmental modelling.
- Collaborates with State Energy Offices (SEOs), local American Society for Healthcare Engineering chapters, environmental advocates, utilities, and regulators to identify opportunities and barriers for CHP in the Midwest. Through this collaboration I have developed presentation materials, organized workshops, spoke at conferences, and completed and reviewed technical analysis including detailed financial screenings, CHP qualification screenings, CHP feasibility studies and CHP technical potential studies.
- Manage junior staff and graduate student interns

Academic Instructor

2014 – Present

- Developed graduate level semester course curriculum and materials for Combined Heat and Power, Management and Design (for UIC Energy Engineering Masters Program).
- Instructed 200+ undergraduate / graduate students.

Energy Policy Analyst

2011 – 2018

- Worked with stakeholders including investor owned utilities, public service commission staff, State Energy Offices, and large energy users in Iowa, Minnesota, Indiana, Ohio and Michigan to model the financial effects of standby rates on CHP applications.
- Provided utility rate technical expertise on standby rates to MidAmerican Power (IA), Dakota Electric Association (MN), Minnesota Power (MN), Ameren Missouri, NISPCO (IN), and Alliant Power (IA)
- Program manager for the US Energy Information Administration's Illinois State Heating Oil and Propane Program (SHOPP)
- Program manager for the Illinois Energy Assurance plan and Illinois' Energy Infrastructure GIS database through the state's Department of Commerce and Economic Opportunity (DCEO).
- Coordinated the Illinois Energy Assurance Plan efforts with the Department of Transportation, Department of Central Management Services, Illinois Commerce Commission, Illinois Emergency Management Agency.
- Training and developing junior staff
- Training and developing of junior level staff.

Ben Campbell

Senior Research Engineer

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LinkedIn [Ben Campbell](#)



The Energy Resources Center, based out of the College of Engineering at the University of Illinois Chicago, is an interdisciplinary public service, research, and special projects organization that works to advance energy sustainability and improve the environment.

EDUCATION

UNIVERSITY OF ILLINOIS AT CHICAGO

Master of Energy Engineering

Chicago, IL

2013 – 2014

ILLINOIS STATE UNIVERSITY

Bachelor of Science in Renewable Energy - Technology

Normal, IL

2009-2010

EXPERIENCE

ENERGY RESOURCES CENTER (ERC), UNIVERSITY OF ILLINOIS CHICAGO (UIC)

Chicago, IL

Sr Research Engineer

Active Programs:

2018 – Present

- **Department of Energy Evaluation of Economic, Ecological, and Performance Impacts of Co-Located Pollinator Plantings at Large-Scale Solar Installations (2021)** – Research lead working with Argonne National Laboratory, the National Renewable Energy Laboratory, and the University of Illinois Urbana Champaign to evaluate the impacts of pollinator plantings underneath and around solar facilities larger than 10 MW. Conducting performance research measuring evapotranspiration properties from the plants underneath photovoltaic panels. Measuring power output of the panels over the three-year period as the pollinator plantings establish. Development of tools to evaluate installation cost, annual operations and maintenance, and lifecycle costs of managing pollinator plantings at photovoltaic facilities.
- **Nicor Gas Energy Efficiency Combined Heat and Power Feasibility Study Program (2019)** – Providing Nicor Gas customers with education, resources, and feasibility analysis to promote the adoption of CHP for Nicor Gas customers. Feasibility analysis includes budgetary pricing, hourly part load modelling analysis, steam/hot water/chilled water production, electricity generated, and pro-forma cost analysis for the lifetime of the equipment. Working with industrial, commercial, and public sector facilities to size appropriate equipment for their energy needs.
- **Department of Energy Midwest and Central Combined Heat and Power Technical Assistance Program (2018)** – Lead engineer with roles including educating stakeholders in CHP technologies, and providing technical assistance in the institutional, industrial, commercial, and agricultural market sectors. Working with local utilities, as well as providing reviews of engineering studies. Develop modelling tools to evaluate the economics of installing CHP systems.
- **TEACH Anaerobic Digestion Program (2021)** – Working with the Environmental Protection Agency to provide modelling of anaerobic digestion technologies to reduce food waste and FOG sent to landfills. Analysis includes carbon reduction, landfill diversion, biogas/renewable natural gas production, and equivalent electricity generated.

Committees:

- **Illinois Technical Advisory Committee** - Developing, editing, and providing feedback on deemed savings database measures for ground source heat pumps, combined heat and power, and air source heat pumps. Work with the Illinois and Massachusetts Stakeholder Advisory Group's Technical Advisory Committee to develop version releases of the TRM.
- **Chancellors Committee on Sustainability and Energy** Assisting the development of the campus Climate Action Implementation Plan which includes a target of net zero carbon emissions by 2050. Assessment of campus' renewable energy, retrocommissioning, and energy efficiency potential to align with university carbon reduction targets. Working with UIC to develop a strategic energy management plan on campus.

Academic Instructor:

2018 – Present

- **ENER420 Combined Heat and Power** course for the UIC Masters of Energy Engineering Program. CHP systems construction, operation, economics and includes a student design project. Builds on previous courses in power plants, engines, HVAC, a stress on economic and software analysis, utility rates and regulations.
- **ENER422 Heating Ventilation and Air Conditioning** course for the UIC Masters of Energy Engineering program. Building construction practices, sizing and design of HVAC systems, management of moisture.

JENNIFER KLEMUNDT

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EDUCATION

UNIVERSITY OF ILLINOIS CHICAGO
Bachelor of Arts in Psychology

Chicago, IL
1998 – 2004

EXPERIENCE

ENERGY RESOURCES CENTER (ERC), UNIVERSITY OF ILLINOIS CHICAGO (UIC)

Chicago, IL

Assistant Director of Research Operations

2014 – Present

- Track and report on department financials to Director and project PIs.
- Approve, reconcile and analyze all financial transactions.
- Coordinate and process department human resources transactions.
- Maintain active and archive files systems for personnel, business/finance accounts and department grants and contracts.
- Manage and process all department grants and contracts from proposal to project closeout.
- Review and approve employee reimbursements.
- Coordinate and conduct utility billing auditing on electricity and natural gas accounts for multiple service territories.
- Complete annual City of Chicago Benchmarking as required for the Illinois Department of Central Management Services.
- Coordinate and oversee all annual mandatory trainings for department staff.
- Coordinate and insure compliance with University policies, federal and state regulations as well as sponsor terms.

Project Coordinator

2004-2014

- Assist with tracking and reporting on department financials to Director and project PIs.
- Assist with the maintenance of active and archive files systems for personnel, business/finance accounts and department grants and contracts.
- Assist with the preparation of all department grants and contracts documents for submission to University offices.
- Process employee reimbursements.
- Conduct Research including gathering legislation and utility data.
- Handle billings in excess of 40 million dollars per year for utility accounts, including account auditing, analysis and reporting, and problem resolution.
- Train and supervise student interns.
- Coordinate and conduct utility billing auditing on electricity and natural gas accounts for multiple service territories.
- Complete annual City of Chicago Benchmarking as required for the Illinois Department of Central Management Services.

General Office Aide

2002 - 2004

- Prepared graduate program applications for review and maintained applicant file system.
- Created and maintained databases for department.
- Organized and maintained thesis library.
- Maintain all relevant materials for Graduate Office, including all forms and application packets.
- Managed incoming and outgoing mail.
- Processed vouchers, invoices, and maintained electronic and hard copy financial records.

MINORITY ENGINEERING RECRUITMENT AND RETENTION PROGRAM, UNIVERSITY OF ILLINOIS CHICAGO (UIC)

Chicago, IL

General Office Aide

1998 - 2002

- Created and maintained information binders on scholarships and graduate school for students and visitors to the department.
- Researched and updated departmental procedures manual.
- Used word processing and other programs to maintain databases, create and manage mailing for departmental events and educational programs.
- Responsible for maintaining and preparing documents, informational packets and brochures for departmental meetings, seminars, and educational programs.
- Assisted department secretary in maintaining and updating department electronic and hard copy financial records.
- Verified and maintained contact lists for Director/Assistant Directors for various department programs and events.