You already know that the University of Northern Iowa offers a great education, but did you know that we also offer great research and technical assistance related to Energy and the Environment? We encourage you to contact us for assistance, and look forward to working with you to sustain and grow Iowa's future.

**Research**

**National Ag-Based Lubricants Center:** Specializing in the research and development of biobased lubricant products, NABL focuses on biobased product performance, testing and standards and is an advocate for the national biobased product industry. [www.uni-nabl.org](http://www.uni-nabl.org)

**Depts. of Chemistry & Physics:** Developing high efficiency solar cells using nanotechnology and synthesizing novel materials for use in energy and/or hydrogen storage applications. [Tim.Kidd@uni.edu](mailto:Tim.Kidd@uni.edu)

**Center for Social & Behavioral Research:** Development and administration of a Iowa statewide survey of energy attitudes and behaviors. [Gene.Lutz@uni.edu](mailto:Gene.Lutz@uni.edu)

**Department of Biology:** Dynamics of prairie forb establishment; biodiversity conservation in agricultural landscapes. [Laura.L.Jackson@uni.edu](mailto:Laura.L.Jackson@uni.edu) Applied and environmental microbiology. [Ed.Brown@uni.edu](mailto:Ed.Brown@uni.edu) Sublethal effects of contaminants in aquatic systems. [Maureen.Clayton@uni.edu](mailto:Maureen.Clayton@uni.edu) Effects of pesticides on human cells. [Kavita.Dhanwada@uni.edu](mailto:Kavita.Dhanwada@uni.edu) Fate and effects of contaminants in aquatic ecosystems. [Kurt.Pontasch@uni.edu](mailto:Kurt.Pontasch@uni.edu)

**Solar Electric Boat Development:** Designs and builds zero-emission boats for Iowa lakes and rivers. [www.cns.uni.edu/eboat](http://www.cns.uni.edu/eboat)

**GeoTREE Center:** Conducts research to detect heat loss from buildings, roof tops and underground using aerial and satellite thermal infrared remote sensing imageries. [www.geotree.uni.edu](http://www.geotree.uni.edu)

**Department of Industrial Technology:** Applied research includes a bio-based metal working fluid research program, design and construction of electric vehicles, and the design and construction of hybrid solar and wind power generation systems. [www.uni.edu/indtech](http://www.uni.edu/indtech)

**Depts. of Chemistry & Industrial Technology:** Developing renewable soy-based inks. [Jeffrey.Elbert@uni.edu](mailto:Jeffrey.Elbert@uni.edu)

**Tallgrass Prairie Center:** The Prairie Power Project is an applied research project to determine the most energy efficient sustainable mixture of prairie vegetation for burning for electrical production. The project also involves determining the best harvesting frequency and pattern for maintaining wildlife habitat. [Daryl.Smith@uni.edu](mailto:Daryl.Smith@uni.edu)

**Metal Casting Center (MCC):** The MCC conducts research leading to the reduction of foundry mold and core air pollutants through the development of biobased foundry binders. [www.mcc.uni.edu](http://www.mcc.uni.edu)

**Professional Science Masters in Ecosystem Management:** Students in this program must complete year-long team projects in the community; project areas include natural area inventories, public education, stormwater management, ecological restoration, conservation research and more. [www.bio.uni.edu/grad_ecosystem.html](http://www.bio.uni.edu/grad_ecosystem.html)
Outreach

**National Ag-Based Lubricants Center:** The NABL Center makes its expertise available to the public by offering comprehensive tribology, analytical and performance lubricant testing services. The Center also offers biodiesel testing services. [www.uni-nabl.org](http://www.uni-nabl.org)

**Recycling & Reuse Technology Transfer Center:** Develops and participates in outreach programs designed to educate Iowans on sustainability, public health issues related to solid waste problems and newly discovered approaches to recycling and reuse. Promotes sound environmental research and new technology through competitive grant programs for established researchers. [www.rrttc.com](http://www.rrttc.com)

**UNI Energy!** : Develops student-led projects in residence halls in which students determine their own barriers, establish their own plans for change and assess their own abilities to reduce their energy use.

Jack.Yates@uni.edu

**Iowa’s Roadside Prairies**: Training teachers, students, parents and communities to understand and appreciate the history of Iowa’s native vegetation and take action toward its conservation. [www.uni.edu/ceee/eii](http://www.uni.edu/ceee/eii)

**Iowa Ecotype Project**: Provide Iowa source identified seed of native prairie species for roadside native vegetation seedings and prairie reconstruction. [www.uni.edu/ecotype](http://www.uni.edu/ecotype)

**Center for Energy & Environmental Education**: Committed to helping Iowans create sustainable living arrangements through community-based programs in energy conservation & efficiency, renewable energy, local foods and environmental health. Center’s staff work with organizations, businesses, schools, utilities, churches and local & state government agencies. [www.uni.edu/ceee](http://www.uni.edu/ceee)

**Strategic Marketing Services (SMS)**: SMS offers a full range of qualitative and quantitative marketing research and analysis services. This knowledge and expertise would be readily applicable to companies involved in renewable energy, biotechnology or other environmentally-related field, as well as for companies looking to expand into these areas or to integrate “green” practices into their organization. [www.bc.uni.edu/sms](http://www.bc.uni.edu/sms)

**Iowa Waste Reduction Center (IWRC)**: The IWRC has been providing free and confidential environmental assistance to Iowa businesses for over 20 years. Services include on-site evaluations of a business’s processes and practices, as well as recommendations for pollution prevention and regulatory compliance. [www.iwrc.org](http://www.iwrc.org)

**Tallgrass Prairie Center**: Providing education, research and consulting in conservation and ecology of tallgrass prairie through the Prairie Institute (America’s Lost Landscape: The Tallgrass Prairie documentary), Iowa Ecotype Project (To increase availability of native prairie seed at reasonable cost), and Integrated Roadside Vegetation Management (IRVM) Program (roadside weed control through use of prairie species). [www.tallgrassprairiecenter.org](http://www.tallgrassprairiecenter.org)

**Northern Iowa Food & Farm Partnership**: A 10-year old program with the goal of strengthening the local food economy and commerce around locally grown foods, making it easier for Iowans to find and purchase locally grown food items. [www.uni.edu/ceee/foodproject](http://www.uni.edu/ceee/foodproject)

**Yards for Kids**: A community-based program to significantly reduce children’s exposure to pesticides at home, parks and schools. [www.uni.edu/yardsforkids](http://www.uni.edu/yardsforkids)

**Institute for Decision Making**: IDM is currently working with the City of Fairfield on a community-wide initiative to develop a consensus-based vision and plan for a sustainable community. The process will include the development of vision, goals, aims and objectives and identifying community-wide responsibility and indicators/measures useful in evaluating progress toward goals and objectives. [www.bcs.uni.edu/idm](http://www.bcs.uni.edu/idm)

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