North Shore water/sustainability
Collaborative education opportunities

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Northwestern community engagement opportunities for faculty and students

High degree of interest, but few local opportunities

• Opportunities for faculty and students to engage in youth and public education (learners as teachers, community service, youth engagement)
• Opportunities for student research, design projects, and service projects

Northwestern on-campus engagement

Take our Daughters & Sons to Work Day 2016
Partnerships with local schools

Rowe-Clark Math and Science Academy
Partnership

New urban focus – for both TNC and NU

• Dual goals to improve urban biodiversity and use urban biodiversity preserves as living laboratories for research, education & outreach.

• Broader regional, national, and global focus on co-sustainability of water, ecosystems, energy, food, and health.

Exceptional educational opportunities linking water, food & ecosystems sustainability with local engagement for youth and the public at large.

http://www.nature.org/ourinitiatives/regions/northamerica/unitedstates/illinois/expl ore/chicago-urban-conservation-initiative.xml
Urban Water, Food, Energy, and Ecosystems Data Sciences collaboration (Urban Water-FEEDS)

Objective: Document and quantify water, energy, nutrient, and carbon requirements for urban food production and concomitant benefits of urban greenspaces for water storage, flood prevention, temperature modulation, and nutrient and carbon sequestration.

Approach: Distributed data acquisition, synthesis, simulation & prediction.
Science + education + community partnerships

• Linking long-term science and sustainability efforts with community questions, concerns, and decisions.
• Youth and public education programs with dual science and sustainability objectives.
• Need venues for community engagement + facilities for science education.
North Shore water/sustainability Collaborative education opportunities

Themes for collaborative sustainability science, education, and community efforts

- Water: Urban water supply, water quality, flooding
- Great Lakes: Hydrology, ecology, human impacts
- Biodiversity: Urban conservation and ecology
- Food: Sustainability, security, local food production
- Energy: Efficiency, sustainability, food-energy-water connections