



Mathematics and Science

**Exploring Math & Science Teaching
at the University of Northern Iowa**



Summer 2010 Internship Locations and Opportunities

BLACK HAWK COUNTY EXTENSION —

1) 4-H and Youth Intern

DESCRIPTION OF YOUTH SERVED: Black Hawk County has approximately 300 youth (ages 5 - 18) involved in traditional 4-H clubs. These clubs meet on a monthly basis. We are working on forming/developing several new clubs in 2008-2009. In addition, 4-H offers summer day-camp and summer school enrichment activities for additional hundreds of youth.

INTERNSHIP DESCRIPTION: The spring, 2009, internship will focus on interaction with existing 4-H clubs in Black Hawk County. Working with the county's 4-H staff, the intern will develop program ideas and see them through to completion. Additionally, the intern will work with staff in planning and preparation for the 2009 Waterloo Summer School program.

ADDITIONAL INFORMATION: With this internship we would be anxious to explore the possibility of an I-Teach intern continuing on in the summer – to allow the student to help with planning in the spring, then being involved in carrying out the program in the summer.

2) Horticulture (Greenhouse) Intern

DESCRIPTION OF YOUTH SERVED: A new greenhouse is under construction at the intermediate school on Logan Avenue in Waterloo. Extension will place the county horticulturist in that facility when it opens. Intermediate age youth (grades 6 – 8) will be the primary target audience. Additional interaction will occur with children and youth from other schools in the Waterloo Community School District and from districts throughout Black Hawk County

INTERNSHIP DESCRIPTION: The Spring, 2009, internship will focus on curriculum development for the greenhouse. We will include working with the county horticulturist on interactive projects involving children and youth, as we coordinate horticulture activities with 4-H clubs. There may also be work on developing community gardens for youth and adults in Waterloo neighborhoods. As the greenhouse moves toward its opening in August, 2009, there will be activities related to planning a grand opening and selecting equipment for the facility.

ADDITIONAL INFORMATION: We recognize that the horticulture needs in the winter/spring may not involve as much direct interaction with youth as a summertime internship will, or as much as will be





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involved once the greenhouse opens in August. However, we believe we can offer a great learning environment for a person who is considering a science teaching career, as we work together on curriculum planning and development – and as we conduct interactive classes and programs with youth.

3) Nutrition and Health Intern

DESCRIPTION OF YOUTH SERVED: Black Hawk County Extension offers Expanded Food and Nutrition Education Program classes to young families in the county. Families served by this program include young children (infants/toddlers/pre-school) and their siblings. The Nutrition and Health program also places an instructor in school classrooms, with direct interaction with youth. Additionally, Summer School classes are offered to the Waterloo Community Schools as summer enrichment.

INTERNSHIP DESCRIPTION: The spring, 2009, internship will focus on the existing nutrition and health programming that is ongoing in Black Hawk County. The intern will have the opportunity to work with the school-based EFNEP worker, as well as with those who are going into homes within the county. An additional feature of the internship will be helping to plan for the 2009 Summer School program for the Waterloo Public Schools.

ADDITIONAL INFORMATION: With this internship we would be anxious to explore the possibility of an I-Teach intern continuing on in the summer – to allow the student to help with planning in the spring, then being involved in carrying out the program in the summer.

BOYS & GIRLS CLUB OF BLACK HAWK COUNTY —

Program Aid: (3 Position Openings, One at Each of the Following Locations: Downtown Waterloo, North Cedar Elementary in Cedar Falls and Poyner Elementary in Evansdale). Internship hours will take place between 3PM and 7PM Monday-Friday. Students will be involved in planning and facilitating after school programs for youth. Program areas include:

- 1) Education and Career Development
- 2) Character and Leadership Development
- 3) Sports Fitness and Recreation
- 4) Health and Life Skills
- 5) Arts





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CENTER FOR ENERGY & ENVIRONMENTAL EDUCATION AT UNI —

Assistant Energy Educator

DESCRIPTION OF YOUTH SERVED: We provide programming for K-16 students across the state of Iowa. This includes presentations for Girl and Boy Scout troops, 4-H clubs, Y groups, etc. We also provide programming for school science camps, utility energy camps, county fairs, and similar events. Our own CEEE programming will include one day sessions on energy efficiency, wind energy, and solar energy.

INTERNSHIP DESCRIPTION: The Assistant Energy Educator will work with Pat Higby and Angela Wichtendahl to develop and deliver energy education programs. Energy education is more than information; it also includes motivation strategies for students to adopt positive behavior change. Our education is informal, as opposed to traditional, formal classroom settings. This format challenges our educators to develop programs that capture and hold the student's attention. Most of our programs include hands-on, inquiry based activities. Some previous knowledge of energy is helpful, but the I-Teach student will learn a great deal about energy and education during their 8 week internship.

GIRL SCOUTS OF EASTERN IOWA AND WESTERN ILLINOIS —

1) Program Assistant

DESCRIPTION OF YOUTH SERVED: Girl Scouts of Eastern Iowa & Western Illinois (GSEIWI) is chartered by our national organization, Girl Scouts of the USA (GSUSA). Girl Scouts is for every girl, everywhere, regardless of race or ethnicity. Our gender specific program gives girls of all segments of American life a chance to develop to their potential, make new friends, and to become a vital part of their community. GSEIWI serves nearly 20,000 girls ages 5-17, in a 31-county region in Iowa and 7 counties in Illinois. Girl Scouts continues to open a world of opportunity to girls each and every day working in partnership with adult volunteers and building girls of courage, confidence, and character who make the world a better place.

INTERNSHIP DESCRIPTION: Duties should allow the UNI student to work directly with youth, as well as the planning, executing and evaluating of youth activities/programs. The Program Assistant will plan and implement an ongoing event with our Program Manager. The intern will learn the inside and outs to planning and implementing events, working with volunteers, and marketing your events. The





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intern will also use their science and math background to plan and implement an event of their choice that the girls will have interest in.

ADDITIONAL INFORMATION: The Program Assistant will be responsible for helping implement specific programs that are typically held early evenings, evenings and weekends. The programs developed will be able to be worked around the Program Assistants schedule. The time that is spent developing and evaluating will be flexible between the hours of Monday-Friday 8:00AM-5:00PM. The Girl Scouts of Eastern Iowa and Western Illinois offer a Young Leaders program that is geared towards college students that if interested the student would be able to participate in the Young Leaders program.

2) Membership Assistant

DESCRIPTION OF YOUTH SERVED: Girl Scouts of Eastern Iowa & Western Illinois (GSEIWI) is chartered by our national organization, Girl Scouts of the USA (GSUSA). Girl Scouts is for every girl, everywhere, regardless of race or ethnicity. Our gender specific program gives girls of all segments of American life a chance to develop to their potential, make new friends, and to become a vital part of their community. GSEIWI serves nearly 20,000 girls ages 5-17, in a 31-county region in Iowa and 7 counties in Illinois. Girl Scouts continues to open a world of opportunity to girls each and every day working in partnership with adult volunteers and building girls of courage, confidence, and character who make the world a better place.

INTERNSHIP DESCRIPTION: The Membership Assistant will work with girls 6th-11th grade to plan and implement a monthly program for girls their age. The Membership Assistant will also be responsible for planning and implementing recruitment activities to bring new girls into the Girl Scout program. The Membership Assistant will be responsible for evaluating which programs are most successful.

ADDITIONAL INFORMATION: The Membership Assistant will be responsible for helping implement specific recruitments and programs that are typically held afterschool, early evenings, evenings and weekends. The recruitments and programs developed will be able to be worked around the Membership Assistants schedule. The time that is spent developing and evaluating will be flexible between the hours of Monday-Friday 8:00AM-5:00PM. The Girl Scouts of Eastern Iowa and Western Illinois offer a Young Leaders program that is geared towards college students that if interested the student would be able to participate in the Young Leaders program.

3) Outreach Assistant



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a collaboration of the University of Northern Iowa, Iowa State University and the University of Iowa



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INTERNSHIP DESCRIPTION: Duties should allow the UNI student to work directly with youth, as well as the planning, executing and evaluating of youth activities/programs.

The Outreach Assistant will help plan, execute and evaluate our afterschool program at various sites including McKinstry Elementary School, Cunningham Elementary School, Lowell Elementary School, Lincoln Elementary School (Waterloo), and the Boys and Girls Club (Waterloo). The sites the intern works at will depend on availability of their schedule. The intern will also be responsible for setting up new outreach sites through the the Boys and Girls Club at North Cedar Elementary School and Poyner Elementary School.

ADDITIONAL INFORMATION: The programs are all held directly after school with typical hours between 2:00PM-5:00PM. The time that is spent developing and evaluating will be flexible between the hours of Monday-Friday 8:00AM-5:00PM. The Girl Scouts of Eastern Iowa and Western Illinois offer a Young Leaders program that is geared towards college students that if interested the student would be able to participate in the Young Leaders program.

GROUT MUSEUM/IMAGINARIUM/FIVE SULLIVAN BROTHER'S MUSEUM —

Imaginarium Assistant (*1 Position Opening*)

INTERNSHIP DESCRIPTION: The Imaginarium Assistant will be responsible for the following: Learning and conducting science demonstrations; assisting in the planning, set-up, operation, & clean-up of the Imaginarium's Super Science Day program; Assisting the Science Educator with school tours; working the front desk in the Museum Store as needed; working 1 Saturday each month; and any other miscellaneous duties as needed.





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Reports To: Science Educator

Hours: Tues through Friday + 1 Saturday per month, 9:00-5:00

HARTMAN RESERVE NATURE CENTER —

Environmental Education Program Internship

DESCRIPTION OF YOUTH SERVED: On average, over 85% of attendees are from Black Hawk County and a majority are elementary students (60%). Over one third of the children are from Cedar Falls Community Schools and nearly half from Waterloo Community Schools. Approximately 9,000 youth visit Hartman Reserve Nature Center each year, with 6,500 attending in conjunction with school field trips.

INTERNSHIP DESCRIPTION: The Environmental Education Program Internship provides the opportunity to plan, implement, and evaluate programs for school children and other youth groups, while managing natural resources. Additional opportunities include publicizing programs, assisting with events, creating exhibits, and analyzing feedback to improve program quality. Programming is designed to support our mission: “Hartman Reserve Nature Center is dedicated to understanding our environment through education, recreation and community involvement and to the stewardship of a unique natural area.” Interns utilize their formal science education, while refining personal and professional skills. Staff oversight is provided by the Program Director.

JAMES & MERYL HEARST CENTER FOR THE ARTS —

Education Assistant

DESCRIPTION OF YOUTH SERVED:

PreK – 6th grade children generally from the Waterloo and Cedar Falls area (and surrounding communities).

INTERNSHIP DESCRIPTION (*please limit to 100 words*):

Prepare arts based education activities (that are also fun) for students as well as oversee the actual class projects. Interns will develop every aspect of the program from materials, lessons, activities, student interaction and supplies. A key element for any activity at the Hearst Center is that it is not only art based





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but also incorporates other disciplines (dance, drama, music, literature, science, etc) therefore interns with various backgrounds and academic concentrations are strongly encouraged to participate.

UNI MUSEUMS —

Educational Programs Assistant (*1 Position Openings*)

DESCRIPTION OF YOUTH SERVED: The UNI Museums offers year round inquiry-based learning experiences with hands-on activities for children.

INTERNSHIP DESCRIPTION: The UNI Museum Educational Programs Assistant will work with the Education Coordinator to develop educational displays and programming.

WATERLOO CENTER FOR THE ARTS: PHELPS YOUTH PAVILION —

Gallery Assistant (*2 Position Openings*)

DESCRIPTION OF YOUTH SERVED: The Phelps Youth Pavilion is a hands-on art gallery designed for children to learn through experience. Some of the focus areas are: *Art History Time Travel, Art Across Cultures, Construction Zone, Grant's Farm* and a performance area, *The Fun Stage*. Children from preschool to middle school age come to the Youth Pavilion on pre-scheduled school or scout tours. Families come on their own.

INTERNSHIP DESCRIPTION: Gallery Assistants will be trained as described above. In addition, each intern will have a project, which will be completed by the end of the semester. The Youth Pavilion can accommodate 2 interns for Spring 2010. The intern will be part of the process of determining what their project will be. Examples of possible projects are: 1.) designing an activity that demonstrates the correlations between light and color or 2.) researching Leonardo da Vinci and his inventions to develop a Boy Scout Program.

ADDITIONAL INFORMATION: Interns may be asked to assist with other youth related programs, such as, birthday parties, classes and workshops.





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YWCA OF BLACK HAWK COUNTY —

Youth Program Assistant

DESCRIPTION OF YOUTH SERVED: Youth served will be middle-school age females from Bunger, Logan, Hoover and/or Central Middle Schools. There may also be interaction with female students from East High School. The youth population will be culturally diverse, and generally from low-income backgrounds.

INTERNSHIP DESCRIPTION: The intern will be providing direct service to program participants through supervision and facilitation of groups and direct interaction with participants. Intern would have the opportunity to plan activities, network with community agencies and professionals, assist with data-tracking, and evaluate increase in knowledge and skills resulting from program services. The majority of the internship will be spent with the Wise Girlz and Las Chicas groups.

