

EXAMPLE OF SUCCESSFUL PROPOSAL FOR 2007-2008 SCHOOL YEAR

FROM: Eugene Wallingford Department of Computer Science 3-2618
Name Office/Department Phone

RE: Consideration for Cooperative Education Placement Site

I request that a student be assigned to the **Department of Computer Science** as a cooperative education student for fall 2009 **and** spring 2010. I realize this student would work for 15 hours a week. I will ensure that effective supervision is provided if selected as a placement site. Funding for this student will not be charged to my budget.

Title for Co-op Position: **Outreach Assistant**

Supervisor: Eugene Wallingford 0507 3-2618
Name Campus Zip Phone

Account to which funds would be transferred: **MUST BEGIN WITH 0011**

Oracle: 0011 – 00 – 00000 – 00000 – 0000 – 00 – 0000 – 000
(29 digits – Oracle Account Number – Co-op Program will assign the object code).

Responsibilities student would be given: The student will assist the head and faculty in Computer Science with efforts to increase the number of K-12 students interested in studying science, technology, engineering, and mathematics (STEM), with a special focus on computer science and information technology. Responsibilities will include:

- Developing demonstrations and interactive sessions for working with K-12 students in workshops on-campus and in school visits
- Assisting faculty with on-campus workshops and in school visits
- Producing brochures and other materials for dissemination to K-12 students
- Reorganizing and extending the department web site to better serve prospective students and their families

Over the course of the year-long assignment, the student would grow in responsibility to the point of leading workshops and interacting with students without a faculty member present.

Benefits student would accrue through this experience: This sort of position broadens greatly the experience typically available to a CS or MIS student. Most large IT-related companies in the State of Iowa, including Principal, Rockwell, and Deere, are currently making efforts to increase the number of K-12 students interested in the STEM disciplines. Having experience with on-campus projects will enhance the student's portfolio of experience and skills attractive to potential employers. Developing and delivering technical demonstrations will also allow the student to work with technologies that they may not see directly in any course. Finally, collecting data and writing prose for a public audience are skills that every student can use in their professional lives.

Ways in which the University would benefit: UNI is involved in efforts to increase STEM enrollments through several projects. Perhaps the most visible is the Regents' Mathematics and Science Education Collaborative Initiative, of which UNI is the leader. The university also has representation on the Iowa Department of Economic Development's Information Technology Council, in which the IDEED is deeply invested. The university will also benefit more directly from having a greater presence in K-12 classrooms and in front of parents and students, in the form of students who choose to attend UNI.

Majors that would best fill this position: Computer Science, perhaps MIS and Mathematics Education students with some programming and web development experience.

Qualifications needed: The ideal candidate will have experience in Computer Science, particularly in computer programming and web design. Any successful candidate will have strong interpersonal and writing skills, and a desire to learn more about the STEM student supply in Iowa and promote STEM, especially in the areas of information.