Funding Opportunities in Computer Science (2014-2015)

ACM **(Association for Computing Machinery)**

Fall Callout: Seeking sponsor for fall callout in first week of September to advertise organization to new students/prospective members. Would like funding for food ($600-700) to accommodate over 200 students, plus any swag items the sponsor wishes to provide.

Game Night: Annual Game Night held in fall semester for all CS students. Students play games, socialize, play video game on the video wall in Lawson Commons. Seeking funding ($500-700) for food for event.

24-Hour Hackathon: Smaller Hackathon event for Purdue (CS and possibly engineering) students only, to allow freshmen/sophomores to experience a smaller scale hackathon event. Seeking funding ($1000-1,500) for food and prizes.

K-12 Outreach

Summer Camp: Middle school camp, which has been running for 17 years, introduces younger students to computer science and computational thinking and encourages students to take CS classes in high school. Helps students form positive connections to concepts and ideas that formulate CS careers. High school camp is a new event in 2014 focusing on computer security concepts. Goal is to build on middle school camp and continue encouraging students to pursue careers in CS. This camp also involves Purdue's CERIAS security center. Cost of both camps is approximately $48,000 and student fees cover half of total cost. Donations help keep cost down for all students and bring richer experience for both middle school and high school students.

Mentoring Program for Women: Focus is on creating a mentoring program for female high school students in Indiana and nurture after-school organizations that encourage women to become involved in computer science and technology. CS students from Purdue will visit with students on bi-weekly basis and help them complete a series of CS-related activities. Students will travel to local businesses once/semester to see how women contribute to computer science professionally. Program has been sponsored by State Farm Insurance, and we would like more companies to host field trips to corporate headquarters. Financial support is also need to help transport Purdue students to schools across IN.

ROCS Student Group (Reaching Out for Computer Science): Elective course designed to expose undergrad students to K-12 Outreach program. Course helps students design instruction and lead activities, as well as participate in both campus and off-campus events related to K-12 outreach. Contributions made to the general Outreach budget can be used toward operational and logistical costs and will impact students across the state.

Teacher Summer Institute: Two-day event in the summer to provide teacher training for in-service educators teaching computer science. Program focuses on improving teaching efficacy, building a sustainable CS community of educators, and exposing teachers to new and innovative teaching

technologies. Total program costs, including instruction, transportation and accommodations, are $10,000-$15,000.

CS Outreach Hardware (robotics kits, Android devices, Raspberry Pis, etc.): Effort to bring exciting tools and technologies to the schools so that teachers may use these in their classrooms. Costs are usually too high for individual teachers, but Purdue can loan and maintain these tools so teachers don't have to bear the cost individually. Contributions are used toward purchasing and maintaining more equipment. Example: contribution of $6,000 could be used to purchase a classroom set of BOE bots to loan out during the school year; this could also be used during summer camps and numerous on-campus programs.

Grace Hopper

The CS Department funds undergraduate and graduate female students to attend the Grace Hopper conference each year. This conference brings together students, researchers and professionals in the computing field and provides an opportunity for females involved in the field to network and learn from each other.   We would like to send 15-20 students to the conference in 2014 (held in Phoenix, AZ, in October), and funding for each student is approximately $1,000 including registration, travel and hotel accommodations.

USB (Undergraduate Student Board)

Corporate Partner Mixers (fall and spring): Seeking sponsors to provide $900 total ($450/semester) for food and beverages for the mixer.

Tutoring Center (fall and spring): Funding for paid tutors for fall and spring semesters, total of $2,400 year ($1,200/semester). Want to add two more tutors next year (currently have two) at $10/hour. Tutors work 2-3 hours/week to assist students in CS 180 and CS 240 classes with labs, homework and projects. Has been very successful thus far with about 10 students coming every week, so want to continue and grow the program next year.

Boilermake Hackathon: Details to be determined, but another Boilermake is planned for 2014-2015. Sponsor information will be available soon. For more specific information, contact Spencer Brown at brown886@purdue.edu.