



<http://www.csuci.edu/ira/index.htm>

Application
Instructionally Related Activities Funds Request
2012-2013 Academic Year
DEADLINE: Fall and Academic Year 3/31/12
Spring TBD

Applications must first be sent to the appropriate program chair. Chairs will then recommend and route them to the Dean's Office for review and authorization. The Dean's Office will then forward them to the IRA Committee for consideration.

Activity Title: ACM International Intercollegiate Programming Contest

Project Sponsor/Staff (Name/Phone): **Prof. AJ Bieszczad, x2773**

Activity/Event Date(s): **November 2012**

Date Funding Needed By: **September 2012**

**Please Note that for Fall Requests the earliest that you will be notified of funding availability will be early June 2011 and for Spring Requests early January 2012.

Please check if any of the following apply to your IRA:

- | | |
|--|---|
| <input type="checkbox"/> Equipment Purchase | <input type="checkbox"/> Field Trip |
| <input type="checkbox"/> Event | <input type="checkbox"/> Participant data collection for public dissemination, i.e. interviews/surveys that result is a journal/poster session/newsletter |
| <input type="checkbox"/> IT Requirements | <input type="checkbox"/> Risk Management Consultation |
| <input type="checkbox"/> International Travel | <input type="checkbox"/> Late Submission (Passed Deadlines: Fall 3/15, Spring 10/15) |
| <input type="checkbox"/> Space/OPC Requirements | |
| <input type="checkbox"/> Infrastructure/Remodel | |
| <input checked="" type="checkbox"/> Other Programming Contest | |

Previously Funded: **YES** NO Yes, Request # _364_____

Does your proposal require IRB (Institutional Review Board) approval: Yes **No**

Assessment submitted for previously Funded Activity: **YES** NO

Academic Program or Center Name and Budget Code: **770-COMPUTER SCIENCE**

Date of Submission: **MARCH 28th, 2012**

Amount Requested: **\$ 2700.00**
 (Should match item 2. E. on page 4)

Estimated Number of Students Participating: **15**

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Conditions and Considerations

Equipment Purchase-If requesting large equipment, Project Sponsor must show proof of correspondence with OPC Administration. In addition, all other purchases must follow Procurement Guidelines

Events-Attach copy of Events and Facilities Use Request Form (Public Folders-Events & Facilities folder) Consider time frame for set-up and take down.

Participant Data Collection for Public Dissemination-If Project Sponsor proposes to conduct research with human participants then it may be subject to IRB (Institutional Review Board for the Protection of Human Subjects) review. It is the Project Sponsor's responsibility to inquire with the IRB **prior** to IRA application submission to determine if the project is exempt from IRB review so that funding is not delayed. Please indicate on the cover page if your project is exempt from IRB review.

Field Trip-If approved, Identified Risks of Participation and Release Agreement must be submitted for each student to the Program Office (Public Folders-HR Forms).

IT Requirements-Requires proof of correspondence and approval from IT Administration

International Travel-Requires International Travel application be submitted to Center for International Affairs.

Risk Management Consultation-Requires proof of correspondence with Risk Management.

Space/OPC Requirements, Infrastructure/Remodel-Requires proof of correspondence with OPC Administration .

Late Submission (Deadlines: Fall 3/14, Spring 10/15)-Requires explanation for emergency funding.

Fiscal Management: Project Sponsor's program will be responsible for all costs incurred over and above what is funded through the IRA award and will be responsible for seeing that any revenue that is intended to offset the amount of the IRA award is transferred accordingly.

2011-2012 Academic Year

Requirements and Signatures

Please provide the following in your application:

1. **Brief Activity Description.** Describe the activity and its relationship to the educational objectives of the students' program or major.

The students will participate in an annual, internationally recognized programming contest sponsored by Association for Computing Machinery (ACM), IBM, and Google that involves over 1800 universities from around the world sending over 6000 teams to numerous regional contest. Our university belongs to the Southern California region. The students compete against peers from various institutions of higher education including CalTech, USC, all Southern California UC and CSU campuses, numerous private institutions as well as some of the best community colleges. In addition to improving their skills as computer programmers, the event allows our students to expand their horizons beyond the walls of the Computer Science Program, and the CSUCI.

In the past we sent 3-5 teams to the contest. Each team has three members, who collaboratively solve programming problems using one computer.

Please see:

http://en.wikipedia.org/wiki/ACM_International_Collegiate_Programming_Contest

2. **Relation to IRA to Course Offerings.** All IRAs must be integrally related to the formal instructional offerings of the University and must be associated with scheduled credit courses. Please list all classes that relate to the program proposed.

Programming is a fundamental skill that is taught in numerous Computer Science courses: COMP105 Introduction to Computer Science and Programming, COMP150 Introduction to Object-Oriented Programming, COMP151 Algorithms and Data Structures, COMP232 Programming Languages, COMP350 Software Engineering, COMP351 Distributed Computing, COMP450 Advanced Object-Oriented Programming, and many others that have smaller or larger programming components.

The contest is a competition between teams of three students that have to share one computer trying to solve six difficult problems in a five-hour session. The teams have to practice for several weeks to prepare for the event. For that, the eligible students enroll in COMP450 Advanced Object-Oriented Programming, and some may participate through COMP497 Directed Studies (e.g., if participating second time).

Through this activity, the students exercise not only programming but also interpersonal skills working as members of a competing team. Teamwork is an extremely important aspect of the computer programming profession, and the industry requires that these professionals have excellent teamwork expertise.

3. **Activity Assessment.** Describe the assessment process and measures that the program will use to determine if it has attained its educational goals. **Please note a report will be due at the end of the semester.**

The students will compete against teams from other Southern California universities, so we will be able to compare how do we do in comparison with other institutions. Especially interesting is comparison with other campuses of CSU. We have been improving every year and we have gained a competitive position with best schools from the region. We have also become a recognizable landmark at the contest, so the teams are good ambassadors for CSUCI.

Please visit <http://compsci.csuci.edu/> (click on Programming Contests) to see the history of the several past years of our participation.

Student interpersonal skills should help them improve the quality of their work in classes that require teamwork such as COMP350 Software Engineering.

In the past, the contest provided a vehicle for improving students programming skills. Many of them were solving problems of substantial difficulty for the first time. The students learned a lot. One can easily see a difference that the practice makes in higher level classes.

Some quotes from the students evaluations of the contest preparatory class:

"I learned more from this class than all of my other classes this far. Not only was this class educational but fun".

"This class proved excellent for actually learning how to implement programming algorithms".

4. **Activity Budget.** Please enclose a complete detailed budget of the entire Activity **bold** specific items of requested IRA funding. (Page 4)

The contest takes place every November at the Community College in Riverside, CA. It is a whole day engagement that start at 8:30 am in the morning and ends twelve or so hours later. We will drive there a day earlier and stay in a hotel, so we can compete with fresh heads next day. We need to cover the accommodation for Friday evening and Saturday morning. Later on, students get fed during the contest.

To stay competitive, our teams need to practice. We would like to buy a few books that are geared towards programming competitions. They show not only problem solving methodologies , but also strategies for effective teamwork.

We also need some office supplies like notebooks, pens, etc. Some printing and copying is also needed.

We have become a landmark of the annual event, because we are a very visible and well-organized group. We would like to keep up with that tradition of publicizing CSUCI. Many students decide to study Computer Science at CSUCI, because of the news about the events that we are participating in.

5. **Sources of Activity Support.** Please list the other sources of funding, and additional support for the activity.

None.

7. **Acknowledgment.** Project Sponsor and Program Chair acknowledge that they have reviewed and accepted the Conditions and Considerations detailed on page 2.

Signatures and Dates

Project Sp

AJ Bieszczad

3/28/12

Date

Program

Peter Smith

Date

3/29/12

Dean

Karen Carey

4/2/12

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ACTIVITY BUDGET FOR 2012-2013

1. Operating Expense Budget

A. Supplies	<u>\$ 500.00</u>
B. Vendor Printing	_____
C. InState Travel	<u>\$1500.00 (RoadRunner)</u>
D. OutofState Travel	_____
E. Equipment Rental	_____
F. Equipment Purchase	_____
G. Contracts/Independent Contractors	_____
H. Honorarium	_____
I. OPC Chargeback	_____
J. Copier Chargeback	_____
K. Other (Please Specify)	<u>\$ 700.00 (registration fees, advertising)</u>

TOTAL Expenses \$ 2700.00

2. Revenue

A. Course Fees	_____
B. Ticket Sales	_____
C. Out of Pocket Student Fees (exclusive of course fees)	_____
D. Additional Sources of funding (Please specify And indicate source)	_____
E. Requested Allocation from IRA	_____

Total Revenue _____