

Instructionally Related Activities Funds Request Fall 2016

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IRA Funds Request for ACM Intercollegiate Programming Contest

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Instructionally Related Activities Funds Request Summary

Project Sponsor	Brian Thoms
Activity Title	ACM Intercollegiate Programming Contest
Activity/Event Date	11/12/2016
Date Funding Needed By	10/01/2016
Previously Funded?	Yes
Semester/Year	Fall/2015
Proposal #	718
Report submitted for previously Funded Activity?	Yes
Report submitted for previously Funded Activity	irareportform718.docx
Additional Report #1	irareportform0622.docx
Additional Report #2	—
Additional Report #3	—
Additional Proposers	—
Academic Program(s) / Center Name(s)	Computer Science
Estimated total Course Fee revenue	NA
Amount Requested from IRA	\$2,520.00
Estimated Number of Students Participating	15
Conditions and Considerations	Field Trip
Brief Activity Description	<p>Participating Computer Science students will take part in a single day trip to Riverside Community College to participate in the 2016 ACM International Collegiate Programming Contest (ICPC).</p> <p>Contest Background: ICPC is a multitier, team-based, programming competition with participation from over 2,500 universities from over 100 countries. The contest fosters creativity, teamwork and innovation in building software programs, and challenges students' ability to perform within a competitive environment.</p> <p>CI belongs to the Southern California Region, where students compete against peers from local institutions including, but not limited to, UCLA, UCSD, UCSB, USC, Cal Tech, Harvey Mudd and CSULB. As a team competition, contest rules stipulate that each team must consist of three students. Participants must be university students, who have had less than five years of university education before the contest.</p> <p>With support from IRA funds, CI students has been fortunate to participate in this contest for a number of years and have shown increasing success each year. See the website at: http://compsci.csuci.edu/news-and-events/acm-programming-results-2015.htm.</p>
Learning Outcomes and Relation to IRA to Course Offerings	<p>Computer programming is a fundamental skill that is taught in numerous Computer Science and Information Technology courses. The contest was an excellent way for students to showcase their skills learned in the classroom. As such, the following courses are aligned with this activity:</p> <p>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.</p> <p>Additionally, software engineering is becoming increasingly collaborative and participation in the ICPC allows groups of students to work in teams of three to try and solve six highly challenging programming problems within a five hour time-window. Many teams practice well in advance of the competition, honing up on mathematical algorithms and practicing software programming techniques. These activities not only strengthen their programming skills but also enhance project-based skills such as teamwork and collaboration.</p> <p>Lastly, in the weeks leading up to the competition, teams practice and prepare with the support of their contest coach, Dr. Thoms, who will hold contest study sessions and distribute practice problem sets and educational material.</p>
Description of Assessment Process	<p>While the final placement of our teams at the competition is not a good metric for measuring the success of the activity, CSUCI should be proud of their achievements in past events and use these results as a baseline for future accomplishments. In the 2015 contest, each participating team managed to solve at least one challenging computer programming problem, which is a result CI can be proud of.</p> <p>Additionally, student feedback will play an important role in helping to identify various successes and failures of the activity.</p>

Activity Budget	travelbudget20160301.xlsx
CIA Budget	—
CIA Proposal	—
Course Syllabus	—
CIA Certification	—
Other Sources of Funding	Currently, there are no other sources of funding. Should IRA funding not be available, CI's participation in this event will be in jeopardy.
Target Audience/Student Marketing	Our intended audience will be computer science and information technology students, but the event is open to all students with an aptitude for computer programming. In the past, the event has been marketed by: - Computer Science Faculty - Computer Science Club - Women in Computing Club - Computer Science Listserv - Classroom
Bring Benefit to Campus	The results of the competition were well publicized by student clubs and faculty. Additionally, the results were documented online by the ACM Competition website, http://www.socalcontest.org/current/index.shtml , and through the CSUCI Computer Science Blog, http://compsci.csuci.edu/news-and-events/acm-programming-results-2015.htm
Sustainability	The majority of education materials purchases are made available to future event participants.
Program Chair/Director	michael.soltys
Dean	karen.carey
Acknowledgement	I acknowledge that I have reviewed and accepted the Conditions and Considerations herein. Please check off boxes as appropriate.

Program Chair/Director Review

Recommendation	I recommend approval of the IRA Funds Request described on this page
Name	Michael Soltys
Date/Time	3/1/2016 2:53:41 PM
Validation	myCI-signin-JB-6477
Comments	Our students did very well in the past competitions; last year our team came in at number 15, out of 89, before some teams from Caltech! It is a tremendous spirit / team builder.

Dean Review

Recommendation	I recommend approval of the IRA Funds Request described on this page
Name	Karen Carey
Date/Time	3/1/2016 2:55:44 PM
Validation	myCI-signin-TM-7152
Comments	—

IRA Committee Decision

Decision	—
Comments	—

Current Tasks

Task	Time Assigned	Assigned To
IRA Committee Decision	3/1/2016 2:55:44 PM	David Daniels

Completed Tasks

Task	Time Assigned	Time Completed	Completed By
Review from karen.carey, Dean	3/1/2016 2:53:41 PM	3/1/2016 2:55:44 PM	Karen Carey
Review from michael.soltys, Program Chair/Director	3/1/2016 11:12:13 AM	3/1/2016 2:53:41 PM	Mchael Soltys
Fill out Request	3/1/2016 10:33:52 AM	3/1/2016 11:12:13 AM	Brian Thoms

Actions

- [IRA Committee Decision](#)
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