Instructionally Related Activities Funds Request Fall 2019

▾ Submitter

Submitter Name

Brian Thoms

Submitter Email

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▾ 1. Basic Details

Activity Title

2019 ACM Competitive Programming Contest

Activity/Event Date

Programming Competition / Nov. 2019

Date Funding Needed By

November, 2019

Previously Funded?

○ No
● Yes

▾ Previously Funded Proposal

Semester/Year

Fall / 2018

Proposal # (if known)

1025

Report submitted for previously Funded Activity?

● No
○ Yes

Additional Proposers

Academic Program(s)/Center Name(s)

Computer Science

Estimated total Course Fee revenue

0

Amount Requested from IRA

2700

Estimated Number of Students Participating

15

2. Brief Activity Description

Describe the activity and its relationships to the educational objectives of the students' program or major

Brief Activity Description

Unfortunately, in 2018, we had to cancel our participation due to the wildfires.

Participating Computer Science students will take part in a single day trip to Riverside CommunityCollege to participate in the 2019 ACM International Collegiate Programming Contest (ICPC).

Contest Background: ICPCis 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.
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.

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, with the exception of missing 2018. For our latest results, please review : https://compsci.csuci.edu/about/news-and-events/acm-programming-results2017.htm.

3. Learning Outcomes and Relation of 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.

1. Please list all classes that directly relate to the proposed activity.
2. For each class listed, describe in detail how exactly the IRA activity will be integrated with the class's activities, how often/ on what expected date(s), and to what extent

Learning Outcomes and Relation of IRA to Course Offerings

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:

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 AdvancedObject-Oriented Programming.

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.

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.

▾ 4. Activity Assessment

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

Description of Assessment Process

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 resultCI can be proud of.

Additionally, student feedback will play an important role in helping to identify various successes and failures of the activity.

▾ 5. Activity Budget

Please enclose a complete detailed budget of the entire activity. Indicate specific items that you are requesting IRA to fund.

You should use either the Regular Activity budget (for events on campus) or -- if your event involves any travel-- you MUST use the IRA Travel Budget Form.

You can download both of the IRA Excel Budget sheets at http://www.csuci.edu/ira/application.htm.

Activity Budget

travelbudget20190317-ACM.xlsx

▾ 6. International Trips

If your event is an international trip submitted through the Center for International Affairs, you must include copies of:

1. Complete Center for International Affairs/ UNIV 392 proposal
2. The program budget as submitted to the Center for International Affairs (to ensure congruency between the two budgets)
3. as well as a copy of the course syllabus

Center for International Affairs Budget

Copy of Center for International Affairs Proposal

Course Syllabus

Certification

☐ I certify that students attending this trip are not previous or repeat attendees of a prior International UNIV 392 Trip

7. Sources of Activity Support

Please list the other sources of funding (including course fees), and exact expected amounts of additional support for the activity. Please indicate if there are no other sources of funding

Other Sources of Funding

There are currently no other sources of funding.

8. Promoting Participation

What is your intended audience and how do you intend to market this to your students?

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

If this is an event that is off campus, how do you plan to bring back the benefit of this event 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 CSUCIComputer Science Blog,

https://compsci.csuci.edu/about/news-and-events/acm-programming-results2017.htm

9. Approval and Acknowledgement

Program Chair/Director

Soltys, Michael

Dean

Wyels, Cynthia (Arts & Sciences)

Conditions and Considerations

☐ **Artist/Performer/Speaker Fees & Honoraria**: On the Activity Budget, please indicate whether the vendor's price was set by you/CI Representative, or is a fee that was set by the vendor.

☐ **Large Event**: For a large event, consultation with the campus Event Coordinator's office at (805)437-8548 is required.

☑ **Field Trip**: Sponsor must comply with all policies found at:
http://www.csuci.edu/rm/programs/academic-field-trip-guidelines-and-forms.htm. If approved, Identified Risks of Participation and Release Agreement must be submitted for each student to the Program Office (Public Folders-HR Forms).

☐ **Involves Human Subject Data Collection for Public Dissemination -Requires IRB Approval** : If Project Sponsor proposes to conduct research with human participants, the proposal may be subject to Institutional Review Board for the Protection of Human Subjects (IRB) review. All research that involves any type of interaction with human subjects - from simple surveys to complex biomedical procedures - must be reviewed and approved by the IRB prior to starting the research. Data for "Public Dissemination" indicates interviews/surveys that result in a journal/poster session/newsletter, etc.

☐

IT Requirements: If your activity has IT requirements, coordination with and approval from IT Administration is required.

☐ **International Travel**: Requires International Travel application be submitted to Center for International Affairs. Include copy of CIA budget and course syllabus in your IRA application. Must utilize the University's Foreign Travel Insurance Program (FTIP) and follow all International Travel Guidelines listed at: http://www.csuci.edu/rm/insurance/foreign-travel.htm

☐ **Risk Management Consultation**: Events that involve or engage students directly with a performer or artist (i.e. in a workshop or other than as a passive audience member) will require consultation with Risk Management. Requires proof of correspondence with Risk Management.

☐ **Space/Facilities Services Requirements**: Consultation and coordination with Facilities Services is required.

Acknowledgement

☑ I acknowledge that I have reviewed and accepted the Conditions and Considerations herein. I acknowledge that the activity sponsor will be responsible for managing purchases, travel arrangements, and all transactions related to approved activities. Please check off boxes as appropriate.

Chair Review

Recommendation

● I recommend approval of the IRA Funds Request described on this page
○ I DO NOT recommend approval of the IRA Funds Request described on this page

Comments

Computer Science has been attending this conference every year; this is very good for our students, as they compete at a high level, and the prospect of competing makes them work harder.

✎ Michael Soltys-Kulinicz	Mar 21 2019

Dean Review

Recommendation

● I recommend approval of the IRA Funds Request described on this page
○ I DO NOT recommend approval of the IRA Funds Request described on this page

Comments

This is a worthwhile activity that will benefit students.
Please note the expectation of a written report upon conclusion of the activity.

✎ Cynthia Wyels	Apr 4 2019