Application
Instructionally Related Activities Funds Request
2013-2014 Academic Year

DEADLINES: Application Submitted to AVP:
Fall and Academic Year 2013-14: 03/01/13
Spring 2014 deadline: 10/01/13

Submittal Process: Applications must be first be signed by your program chair and then submitted to the appropriate AVP for approval. AVP's will next forward application to the IRA Coordinator for review. If there are questions or concerns, you may be asked for revisions or additional information. The IRA Coordinator will then forward applications to the IRA Committee for consideration.

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.

Duplicate requests- if Sponsor is submitting multiple proposals for recurring events involving speakers, musicians, etc., please combine your requests into one proposal.

Activity Title: ACM Intercollegiate Programming Contest

Project Sponsor/Staff (Name/Phone): AJ Bieszczad

Activity/Event Date(s): November 9th, 2013

Date Funding Needed By: October 1st, 2013

**Please Note that for Fall Requests the earliest that you will be notified of funding availability will be early June 2013 and for Spring Requests early January 2014.

Previously Funded? ☒ YES ☐ NO If Yes, what Semester/Year? Every fall since 2005
Proposal(s) # 484

*If previously funded, please attach copy of post-event IRA Report

Report submitted for previously Funded Activity?: ☒ YES ☐ NO

Academic Program or Center Name: 770-COMPUTER SCIENCE

Estimated total Course Fee revenue: 0

Amount Requested from IRA: $2850   **(Should match "Total Requested from IRA" on Page 5)**

Estimated Number of Students Participating: 15

Conditions and Considerations

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

☐ **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 themselves.

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

☐ **Equipment Purchase**- If requesting large equipment purchase -over $200, or will be a fixture installed on campus- Project Sponsor must show proof of correspondence with OPC Administration. In addition, all other purchases must follow Procurement Guidelines.

☐ **Field Trip**- Sponsor must comply with all policies found at http://www.csuci.edu/hr/AcademicFieldTripGuidelinesandForms.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.

> ☐ **Exempt from IRB Approval** –If your project is exempt from IRB review, include copies of correspondence with IRB Board. 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.

☐ **IT Requirements-** If your activity has IT requirements, your application requires proof of correspondence and approval from IT Administration.

☐ **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.

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

☐ **Late Submission** - Requires explanation for emergency funding.

☐ Other -

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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.

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.
   a. Please list all classes that <u>directly</u> relate to the proposed activity.
   b. For each class listed in #2a, 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.

3. **Learning Outcomes.** List all expected learning outcomes, as connected specifically with each course listed in #2.

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.**

5. **Activity Budget.** Please enclose a complete detailed budget of the entire activity. **Bold** specific items that you are requesting IRA to fund (Page 6).

6. **International Trips.** If your event is an international trip submitted through the Center for International Affairs, you must include a copy of the program budget as submitted to CIA (to ensure congruency between the two budgets), as well as a copy of the course syllabus.

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.

8. **Audience/ Marketing/Promotions.** Who is your intended target audience? How will your event be advertised to students?

9. **Sustainability.** If appropriate, indicate how the content or delivery of the project promotes sustainability at CI.

10. **Images.** For previously funded IRA activities, include copies of images from past IRA activity or activities, demonstrating student participation and levels of students served.

11. **Acknowledgment.** Project Sponsor and Program Chair acknowledge that they have reviewed and accepted the Conditions and Considerations herein.

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 and Learning Outcomes**

   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.**

   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.**

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 use RoadRunner shuttle to get all teams to the event on time.

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 may also needed to advertise the event.

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 by wearing uniform university insignia. Many students decide to study Computer Science at CSUCI, because of the news about the events that we are participating in.

IRA Travel Activity Budget

2013-2014

Activity Title:

Sponsor Name: AJ Bieszczad

Number of Students Particip: **15**

Number of Faculty: **1**

I. Students traveling expenses:

	Cost/ea	# Requested	Total	Comments/Additional Notes
Airfare			0	
Ground Transportation			1300	RoadRunner Shuttle
Hotel Accommodations			0	
Registration Fees			500	Fees per 3-student teams
Entrance Fees			0	
Meals			0	
Cultural Activities			0	
Vehicle/Van Rental			0	
Other:			0	
STUDENT TRAVEL TOTALS		0	1800	

II. Faculty Traveling Expenses:

	Cost/ea	# Requested	Total	Comments/Additional Notes
Airfare			0	
Ground Transportation			0	
Hotel Accommodations			0	
Registration Fees			0	
Entrance Fees			0	
Meals			0	
Cultural Activities			0	
Other:			0	**
FACULTY TRAVEL TOTALS		0	0	

III. Operating Expense Budget

	Cost/ea	# Requested	Total	Comments/Additional Notes
Supplies			750	
Other: Advertising			300	
Other:			0	
OPERATING EXP. TOTALS		0	1050	

IV. Out of Pocket Student Expenses

	Cost/ea	# Requested	Total	Comments/Additional Notes
Health Insurance			0	
Tuition/Registration			0	
Travel Insurance			0	
Out of Pocket Meals			0	
Other:			0	
STUDENT EXP. TOTALS		0	0	

V. Total costs of the trip- Please Note that Formulas Calculate Automatically

Total Student Traveling Expenses	1800
Faculty Travel Expenses, if funded at 100%	0
Operating Expenses, if funded at 100%	1050
TOTAL IRA FUNDING REQUESTED	**2850**
Out of Pocket Student Expenses	0 Not funded by the University
UNIV 391/392 & International Trips only	
Maximum IRA student funding @ 2/3rd of student total cost	**1206**
1/3 of total cost payable by students through course fee	594
TOTAL IRA FUNDING REQUESTED FOR INT'L TRIPS	**2256**
Out of Pocket Student Expenses	0 Not funded by the University

INSTRUCTIONALLY
RELATED
ACTIVITIES

California State
University

C H A N N E L
I S L A N D S

Proposal # 484

Instructionally Related Activities Report Form

SPONSOR	DEPARTMENT
AJ Bieszczad	Computer Science

ACTIVITY TITLE	DATE (S) OF ACTIVITY
ACM International Intercollegiate Programming Contest	November 9th, 2012

SUPPORTING DOCUMENTATION

Attach:
1) Student evaluations or assessments
2) A list of attendees complete with each student major and expected graduation date, and
3) Images demonstrating student participation (up to 6 images)

E-mail to the IRA Coordinator at lisa.ayre-smith@csuci.edu within 30 days after the activity.

Thank you for your commitment to engaging our students!!

PLEASE ANSWER THE FOLLOWING QUESTIONS:

(1) PROVIDE A DESCRIPTION OF THE ACTIVITY;

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.

(2) HOW DID THE ACTIVITY RELATE TO A COURSE(S) AND/OR LEARNING OBJECTIVES?

PROGRAMMING IS A FUNDAMENTAL SKILL THAT IS TAUGHT IN NUMEROUS COMPUTER SCIENCE COURSES: COMP105 INTRODUCTION TO COMPUTER SCIENCE AND

INSTRUCTIONALLY
RELATED
ACTIVITIES

California State
University

C H A N N E L
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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) WHAT DO YOU SEE AS THE STRENGTHS OF THE ACTIVITY?

STUDENTS STARTED TO UNDERSTAND BETTER THE IMPORTANCE OF MANY ELEMENTS OF THE COMPUTER SCIENCE CURRICULUM THAT STRESSES INTENSIVE HANDS-ON PROGRAMMING EXERCISES.

STUDENT COLLABORATION IN TEAMS IMPROVED NOT ONLY PROGRAMMING, BUT ALSO INTERPERSONAL AND COMMUNICATION SKILLS.

TEAMWORK CEMENTED THE BONDS THAT INCREASED INTEREST IN COMPUTER CLUB.

(4) WHAT WOULD YOU SAY ARE/WERE THE ACTIVITY'S WEAKNESSES?

IN THE PAST WE MADE CSUCI MORE VISIBLE WEARING CSUCI SWEATSHIRTS. TOO SMALL BUDGET WAS REQUESTED FOR ADVERTISING, SO WE COULD AFFORD ONLY HATS.

(5) HOW WOULD YOU IMPROVE THIS ACTIVITY FOR NEXT TIME?

MAKE THE CSUCI REPRESNTATNTS MORE VISIBLE.

(6) WHAT DID YOU LEARN FROM THE PROCESS?

GOING TO THE EVENT BY ROADRUNNER SHUTTLE IN THE MORNING WORKED SUPRISINGLY WELL. I WAS AFRAID THAT IT WOULD BE A PROBLEM AFTER SEVERAL YEARS OF GETTING TO RIVERSIDE A DAY EARLIER.

PARTICIPATING STUDENTS:

INSTRUCTIONALLY
RELATED
ACTIVITIES

CHANNEL
ISLANDS

California State
University

@MYCI.CSUCI.EDU

CSUCI-5
=======

@MYCI.CSUCI.EDU

YCI.CSUCI.EDU

@MYCI.CSUCI.EDU

E-mail to the IRA Coordinator at lisa.ayre-smith@csuci.edu within 30 days after the activity.