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Application Summary

Competition Details

Competition Title: IRA Applications for 2021-2022

Category: Internal Funding

Award Cycle: 2021-2022

Submission Deadline: 11/12/2021 11:59 PM

Application Information

Submitted By: Eric Kaltman

Application ID: 866

Application Title: ACM Intercollegiate Programming Contest 2021

Date Submitted: 03/19/2021 11:04 AM

Personal Details

Applicant First Name: Eric

Applicant Last Name: Kaltman

Applicant Department: Computer Science

Email Address: eric.kaltman@csuci.edu

Phone Number:

Additional Applicant Name:

Additional Applicant Email:

Additional Applicant Department:

Application Details

Proposal Title

ACM Intercollegiate Programming Contest 2021

Total Amount Request from IRA

2,935

Brief Activity Description

The International Collegiate Programming Contest (ICPC) is a multi-tier, team-based, programming competition involving a global network of universities hosting regional competitions to advance teams to the ACM-ICPC World Finals. Since it began in 1970, the contest has grown to include tens of thousands of students and faculty in computing disciplines from over 2,000 universities from over 91 countries. The contest fosters creativity, teamwork, and innovation in building software programs, and challenges students' ability to perform within a competitive, team-collaborative, and time-sensitive environment.

The students leave campus en route to the contest site at Riverside Community College (RCC) during the first Saturday in November. Each contest begins with a morning tutorial session followed by a five-hour contest window where teams of three students share one computer to collaboratively answer problems. We generally return late in the evening as the contest points calculation takes some time given the number of teams (in 2019, the last physical competition, 88 teams competed).

Each year, CI competes in the Southern California Regional. AT RCC, students compete against peers from local institutions including, but not limited to UCLA, UCSD, UCSB, USC, Cal Tech, Harvey Mudd and CSULB. In 2019, CI sent four teams of students, with one team placing 23rd out of 88, and two others solving at least one difficult computing problem. In 2020, the ICPC competition moved completely online. CI fielded three teams, with two answering 4 of 10 questions correctly (a recent record) and placing 30th and 32nd out of 61 competitors. All of 2020's teams managed to answer at least one question, which is an achievement on its own.

CI students (and faculty) look forward to this event every year and strive to continue a tradition of strong performances.

A further note, given the COVID-19 situation, the status of virtual or physical for the 2021 competition is still unknown. This IRA is applying for a physical competition and estimates a 5% increase in costs relative to our estimates from the last application cycle.

Activity or Event Date

11/6/2021

List all classes that relate to proposal

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

Learning Outcomes & Relation to Course Offering

Computer programming is a fundamental skill taught in numerous Computer Science and Information Technology courses. At the ICPC, students are able to showcase their skills learned in the classroom in a challenging and competitive setting. 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 Advanced Object-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 ten 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. Due to competition constraints, only one student can program at a time which requires the team to strategize regarding perceived problem difficulty and divisions of intellectual labor.

Lastly, the competitive students from last competition cycle are already eager to start preparations for the next contest. In 2020 students attended numerous practice competitions in the two months leading up to competition, and there are now plans to start practice sessions even earlier (in Spring 2021 and over the summer) to prepare even more. Team coaches, Dr. Eric Kaltman and Lecturer Nicole Stern, will hold contest study sessions and distribute practice problem sets and educational material.

Is this activity off campus ?

Yes

Off Campus - Describe benefit brought back to campus

The results of the competition are well publicized by student clubs and faculty.

Additionally, ACM provides results online: <http://www.socalcontest.org/current/index.shtml>.

Dr. Kaltman will also post a full event recap blog post on Computer Science's news blog.

CSUCI - IRA Travel Activity Budget

2021 - 2022

Proposal/Activity Title: ACM International Collegiate Programming Contest 2021

IRA Applicant's Name: **Eric Kaltman**

Number of Students Participating:	15	Where- Location	Riverside Community College
Number of Faculty:	1	When - Month/Year	Nov-20

IRA Planning Travel Budget 2020-2021

I.	Student traveling expenses:	Cost/ea	# Requested	Total	Comments/Additional Notes
	Airfare	\$0.00		\$0.00	
	Cal Travel Store fee per Ticked	\$10.00		\$10.00	(\$10/ticket automatically added when using Cal Travel Store)
	Ground Transportation	\$2,250.00		\$2,250.00	Shuttle to Riverside Community College from CSUCI, 20 students at \$110.00 per hour for 16 hours + 15% gratuity + 5% price increase estimate
	Boat Transportation			\$0.00	boat trips to the Channel Islands via Island Packers; rates for CI = \$54/person to Santa Cruz Island, \$104/person for Santa Rosa Island (SRI)
	Lodging	\$0.00		\$0.00	
	Registration Fees	\$135.00	5	\$675.00	Registration for each team (up to 5) at the ICPC competition. 5% increase estimate from 2019.
	Entrance Fees	\$0.00		\$0.00	
	Meals (included)	\$0.00		\$0.00	if traveling to SRI, please note a \$15 per person/per day fee (i.e. budget \$45/person for 3-day trips)
	Cultural Activities	\$0.00		\$0.00	
	Vehicle/Van Rental			\$0.00	
	Other:			\$0.00	
	STUDENT TRAVEL TOTALS	\$2,395.00		\$2,935.00	
II.	Faculty Traveling Expenses:	Cost/ea	# Requested	Total	Comments/Additional Notes
	Airfare	\$0.00		\$0.00	
	Cal Travel Store fee per Ticked	\$10.00		\$0.00	(\$10/ticket automatically added when using Cal Travel Store)
	Ground Transportation	\$127.60	1	\$127.60	Faculty mileage for personal vehicle use if coaches driving separately (220 miles * \$0.58 per mile) = \$127.60
	Lodging	\$0.00		\$0.00	
	Registration Fees			\$0.00	
	Entrance Fees			\$0.00	
	Meals (included)	\$0.00		\$0.00	
	Cultural Activities	\$0.00		\$0.00	
	Other:			\$0.00	
	FACULTY TRAVEL TOTALS	\$137.60		\$127.60	
III.	Operating Expense Budget	Cost/ea	# Requested	Total	Comments/Additional Notes
	Supplies			\$0.00	
	CI Facilities Chargebacks			\$0.00	[charges for large campus rooms: 1) Grand Salon \$395/day; 2) Petit Salon \$265/day; 3) Malibu #100 \$265/day]
	Other:			\$0.00	
	OPERATING EXP. TOTALS	\$0.00		\$0.00	
IV.	Out of Pocket Student Expenses	Cost/ea	# Requested	Total	Comments/Additional Notes
	Health Insurance			\$0.00	
	Tuition/Registration			\$0.00	
	Travel Insurance			\$0.00	
	Out of Pocket Meals			\$0.00	
	Other:			\$0.00	
	STUDENT EXP. TOTALS	\$0.00		\$0.00	
V. Please note that Line "B" below is for UNIV 391 and 392 trips ONLY; IRA funds 2/3rds of these, course/lab fees funds the other 1/3rd.					
A	Total Fundable Student Traveling Expenses			\$2,935.00	
B	UNIV 391/392: Max IRA funding is 2/3rd of total			\$1,966.45	
C	Total Faculty Travel Expenses			\$127.60	
D	Operating Expenses			\$0.00	
	TOTAL TRIP COST for Non-UNIV 391/392 (total of A,C,D)			\$3,062.60	
	UNIV 391/392 TOTAL IRA FUND REQUEST (total of B,C,D)			\$2,094.05	
	UNIV 391/392: 1/3 of costs payable by students via lab fee			\$968.55	
	If course fee is setup differently, list here				

IRA Travel Activity Budget

2020 - 2021

SAMPLE

Proposal/Activity Title:

UNIV 392 Intercultural Communication

IRA Applicant Name:

Joe Smith

Number of Students Participating:	15	Where	London
Number of Faculty:	2	When - Month/Year	Dec-20

IRA Planning Travel Budget 2020-2021

I.	Student traveling expenses:	Cost/ea	# Requested	Total	Comments/Additional Notes
	Airfare	\$1,200.00	15	\$18,000.00	
	Cal Travel Store fee per Ticked	\$10.00	15	\$150.00	(\$10/ticket automatically added when using Cal Travel Store)
	Ground Transportation	\$170.00	15	\$2,550.00	12-Day Travel Card for Zones 1-6 (\$75), Train to and from Brighton, England
	Boat Transportation			\$0.00	boat trips to the Channel Islands via Island Packers; rates for CI = \$54/person to Santa Cruz Island, \$104/person for Santa Rosa Island (SRI)
	Lodging	\$799.00	15	\$11,985.00	This is the same hotel we've stayed at the last 2 times I've led this course; located in Borough Market w/ free Wifi & hot breakfast for buffet students; triple occupancy; close proximity to public transportation
	Registration Fees			\$0.00	
	Entrance Fees	\$350.00	15	\$5,250.00	Special tour guide and entry for Westminster Abbey
	Meals (included)	\$50.00	15	\$750.00	if traveling to SRI, please note a \$15 per person/per day fee (i.e. budget \$45/person for 3-day trips)
	Cultural Activities	\$177.00	15	\$2,655.00	Westminster Abbey (\$25), Buckingham Palace (\$25), London Eye (\$37), Towe
	Vehicle/Van Rental			\$0.00	
	Other:			\$0.00	
	STUDENT TRAVEL TOTALS	\$2,756.00		\$41,340.00	
II.	Faculty Traveling Expenses:	Cost/ea	# Requested	Total	Comments/Additional Notes
	Airfare	\$1,200.00	1	\$1,200.00	
	Cal Travel Store fee per Ticked	\$10.00	1	\$10.00	(\$10/ticket automatically added when using Cal Travel Store)
	Ground Transportation	\$170.00	1	\$170.00	
	Lodging	\$1,600.00	1	\$1,600.00	This is the same hotel we've stayed at the last 2 times I've led this course; located in Borough Market w/ free Wifi & hot breakfast for buffet students; triple occupancy; close proximity to public transportation
	Registration Fees			\$0.00	
	Entrance Fees			\$0.00	
	Meals (included)	\$900.00	1	\$900.00	\$90/day for 10 days (slightly less than CSU's actual per diem)
	Cultural Activities	\$177.00	1	\$177.00	Westminster Abbey (\$25), Buckingham Palace (\$25), London Eye (\$37), Towe
	Other:			\$0.00	
	FACULTY TRAVEL TOTALS	\$4,057.00		\$4,057.00	
III.	Operating Expense Budget	Cost/ea	# Requested	Total	Comments/Additional Notes
	Supplies			\$0.00	
	CI Facilities Chargebacks			\$0.00	[charges for large campus rooms: 1) Grand Salon \$395/day; 2) Petit Salon \$265/day; 3) Malibu #100 \$265/day]
	Other:			\$0.00	
	OPERATING EXP. TOTALS	\$0.00		\$0.00	
IV.	Out of Pocket Student Expenses	Cost/ea	# Requested	Total	Comments/Additional Notes
	Health Insurance			\$0.00	
	Tuition/Registration			\$0.00	
	Travel Insurance			\$0.00	
	Out of Pocket Meals			\$0.00	

CSU Channel Island

	Other:		\$0.00	
	STUDENT EXP. TOTALS	\$0.00	\$0.00	
V. Please note that Line "B" below is for UNIV 391 and 392 trips ONLY; IRA funds 2/3rds of these, course/lab fees funds the other 1/3rd.				
A	Total Fundable Student Traveling Expenses		\$41,340.00	
B	UNIV 391/392: Max IRA funding is 2/3rd of total		\$27,697.80	
C	Total Faculty Travel Expenses		\$4,057.00	
D	Operating Expenses		\$0.00	
	TOTAL TRIP COST for Non-UNIV 391/392 (total of A,C,D)		\$45,397.00	
	UNIV 391/392 TOTAL IRA FUND REQUEST (total of B,C,D)		\$31,754.80	
	UNIV 391/392: 1/3 of costs payable by students via lab fee		\$13,642.20	
	If course fee is setup differently, list here			