

Instructionally Related Activities Funds Request Spring 2015

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IRA Funds Request for CI Rainbow Project What, Why, and How: Brainstorming, Reconnaissance, and Educational Trip to Santa Rosa Island and the CI SRI Research Station

Instructionally Related Activities Funds Request Summary

Project Sponsor	Andrzej Bieszczad
Activity Title	CI Rainbow Project What, Why, and How: Brainstorming, Reconnaissance, and Educational Trip to Santa Rosa Island and the CI SRI Research Station
Activity/Event Date	April/May 2015
Date Funding Needed By	April/May 2015
Previously Funded?	No
Semester/Year	—
Proposal #	—
Report submitted for previously Funded Activity?	Yes
Report submitted for previously Funded Activity	0562ACMIntercollegiateProgrmgContestBieszczadCOMP.pdf
Additional Report #1	—
Additional Report #2	—
Additional Report #3	—
Additional Proposers	—
Academic Program(s) / Center Name(s)	Computer Science Program
Estimated total Course Fee revenue	0
Amount Requested from IRA	5745.00
Estimated Number of Students Participating	20
Conditions and Considerations	Field Trip
Brief Activity Description	<p>The CI Rainbow Research Project has been established to explore ways of collecting data on Channel Islands, accumulating them in a cloud-based database, and making them available locally for students and researchers at the Santa Rosa Research Station, and globally to any interested researchers, educators, and general public.</p> <p>The preliminary research is being conducted in the University Park and at CI. Several sensory clouds will collect data such as temperature, humidity, sound, video, etc., and transmit them to a database located in the CI's IT Data Center. A use of surveillance by self-guided drones is also explored (e.g., in response to an event like animal spotting, or suspiciously high temperature/low humidity that may indicate a fire).</p>

	The members of the CI Project want to invite researchers from other disciplines to (1) educate others and demonstrate the capabilities of the sensory network, (2) brainstorm additional applications with the participants, and (3) explore deployment challenges on the island (with respect to the exploratory network in the University Park).
Learning Outcomes and Relation to IRA to Course Offerings	<p>Participants will learn:</p> <ul style="list-style-type: none"> - what is CI Rainbow and what sensory networks - why the network matters to their respective discipline - how they can use the network to their advantage <p>After the trip, the participants will be able to:</p> <ul style="list-style-type: none"> - apply the knowledge to their fields by designing innovative environmental applications - design, implement, and deploy the applications on the CI Rainbow experimental network - use the back-end data access and analysis (e.g., data mining) capabilities of the CI Rainbow infrastructure - experiment with their applications in the University Park - be ready to deploy their applications on the island when the SRI-located network is ready <p>This activity relates to many technology, environmental, and biological courses. It is a very interdisciplinary undertaking.</p>
Description of Assessment Process	All participants will complete a survey about the value of the event measured by the perceived degree of meeting the outcomes. All projects ideas will be recorded and assessed for further development by the participating faculty.
Activity Budget	SRIRSCIRainbowtravelbudgetf14.xlsx
CIA Budget	—
CIA Proposal	—
Course Syllabus	—
CIA Certification	—
Other Sources of Funding	None.
Target Audience/Student Marketing	Students and faculty from disciplines interested in environmental studies on Santa Rosa Island and eager to learn about the technology that supports such studies.
Bring Benefit to Campus	This activity is closely related to the CI Santa Rosa Island Research Station. All activities arising from this trip will ultimately benefit CI by increasing its prestige as an institution that conducts state-of-the-art environmental, and technological, research.
Sustainability	The CI Rainbow network is completely run by solar power and can be a showcase for a sustainable handling of very complex technology supporting research in environmentally fragile locations -- like the National Channel Islands Park.
Program Chair/Director	michael.soltys
Academic Affairs AVP	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 Approval

Approval	I approve the IRA Funds Request described on this page
Name	Michael Soltys
Date/Time	10/2/2014 9:01:35 AM
Validation	myCI-signin-KG-1731

Academic Affairs AVP Approval

Approval	I approve the IRA Funds Request described on this page
Name	Karen Carey
Date/Time	10/2/2014 9:30:04 AM
Validation	myCI-signin-Z4-1806

