Channel Islands
CALIFORNIA STATE UNIVERSITY

# Instructionally Related Activities Funds Request Spring 2015



## IRA Funds Request for CERN internships-ATLAS Project

### Instructionally Related Activities Funds Request Summary

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| **Project Sponsor** | Gregory Wood |
| **Activity Title** | CERN internships-ATLAS Project |
| **Activity/Event Date** | June – mid-August, 2015 (10 week internship) |
| **Date Funding Needed By** | May, 2015 |
| **Previously Funded?** | Yes |
| **Semester/Year** | — |
| **Proposal #** | — |
| **Report submitted for previously Funded Activity?** | — |
| **Report submitted for previously Funded Activity** | — |
| **Additional Report #1** | — |
| **Additional Report #2** | — |
| **Additional Report #3** | — |
| **Additional Proposers** | — |
| **Academic Program(s) / Center Name(s)** | Applied Physics<br>I do not know if Geoff Dougherty filed reports previously on IRA. |
| **Estimated total Course Fee revenue** | n/a |
| **Amount Requested from IRA** | $11520 |
| **Estimated Number of Students Participating** | 2 |
| **Conditions and Considerations** | International Travel |
| **Brief Activity Description** | Students from CI have the opportunity to apply to work with the ATLAS group at CERN for a ten week summer program each year. This is a competitive application against all CSU students across all campuses. They must successfully complete two online courses: one in particle physics, the second in computer programming to ensure they understand, and can contribute to, the work. Students contribute to data analysis and hardware (electronics) testing. They will also attend lectures by notable physicists across many fields and gain invaluable contacts and mentoring opportunities. |
| **Learning** | The courses which directly relate to this opportunity, which are prerequisites to apply, are PHYS 175T, Introduction to Particle Physics and ATLAS |

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| **Outcomes and Relation to IRA to Course Offerings** | Experiment at LHC of CERN, in the Fall, and PHYS 499, Computational Nuclear-Particle Physics, in the Spring. Both are taken via concurrent enrollment in PHYS 497 at CSUCI. The learning outcomes are:<br>Students who successfully complete this course shall have:<br>• Complied with the terms of the mutually agreed-upon contract.<br>• Gained experience of research involving skills in applied physics.<br>• Demonstrated an ability to identify, analyze and report on a selected research area within applied physics. |
| **Description of Assessment Process** | In this unique program, we have external validation as our students must be selected to attend the summer program at CERN. Thus, they have learned a great deal of particle physics before attending the program we are asking IRA to fund. Upon return, students will work with faculty (Greg Wood, specifically) to produce presentations of their work for the Math and Physics undergraduate seminar and other, on campus, venues, such as the Sage Student-Faculty research forum. |
| **Activity Budget** | GGW_InternationalGroupTravelBudgetWorksheet.xls |
| **CIA Budget** | — |
| **CIA Proposal** | — |
| **Course Syllabus** | — |
| **CIA Certification** | I certify that students attending this trip are not previous or repeat attendees of a prior International UNIV 392 Trip |
| **Other Sources of Funding** | In the past, students have been partially self-funding. In this proposal, I'm asking for full funding for two students and no funding is requested for the faculty. There are about nine positions for the entire CSU system, and CI has been highly successful in the past in sending two and three students in prior years. This year, if we get more successful applicants, we will divide any funds provided by IRA equally between all successful applicants. Thus they will partially self-fund, unless further funds can be found. (In such an exceptional case, I will personally ask the local Engineering professional societies, such as SAME and IEEE which I have contact with via the summer engineering academy course I teach for Hueneme High students and others.) |
| **Target Audience/Student Marketing** | We have seven students enrolled in the courses required for this at CI and we recruit students via an email to all STEM majors. We also recruit via returning student presentations and information sessions. |
| **Bring Benefit to Campus** | Our returning students present their work on campus. I believe having students doing research at CERN is a significant source of pride and tool for recruitment for CI and specifically the STEM majors at CI. Students from all CSU campuses can apply, but CI is heavily over-represented in the past two years, indicative of our high academic quality programs. |
| **Sustainability** | Not applicable. |
| **Program Chair/Director** | ivona.grzegorczyk |
| **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

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| **Approval** | I approve the IRA Funds Request described on this page |
| **Name** | Ivona Grzegorczyk |
| **Date/Time** | 10/1/2014 12:32:48 PM |
| **Validation** | myCI-signin-0R-1785 |

### Academic Affairs AVP Approval

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| **Approval** | I approve the IRA Funds Request described on this page |
| **Name** | Karen Carey |
| **Date/Time** | 10/1/2014 1:51:36 PM |
| **Validation** | myCI-signin-W0-8725 |