

Application Form for Empirical, Experimental, or Theoretical Research

UROP Team Grant

The Undergraduate Research Opportunities Program offers up to \$3000 per project, not to exceed \$1200/student, for teams of 2 undergraduates or more who collaborate with faculty on research or creative work. These grants also provide support for course-related or capstone projects, up to \$1000 per project, not to exceed \$250 per student. Projects may be of faculty or student design, but in all cases students must function as researchers or co-researchers with responsibilities that would exceed those of a student assistant.

If you have questions, please visit our website: www.colorado.edu/Research/UROP/studgrants.htm

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Faculty Sponsor				Rank	Department			
Tom Brown			Senior Instructor	ECEE				
Campus Box Number Telepi		phone Number		CU Email Address				
UCB 425 303-492-4190		03-492-4190		tomb@colorado.edu				
005 123	3	03 172 1170		combecciorado.cad				
The attached proposal was written by:		Number of Students	Da	ites student participation will begin and e	end			
Faculty Sponsor □ Student(s) 🗷		5	J	Jan. 17 - May 3 2	2012			
Project Title								
eyeCU								
How much are you requesting from UROP	ch are you requesting from UROP? Is funding available from other sources? If so, from where and how much?							
\$1012.71 Pending Approval: EEF, \$200								

Please attach an abstract of the project and a proposal using no more than five double-spaced pages (see Narrative Proposal Section). Include in your proposal:

- Describe the roles the students will play on the project
- If this is not a student-designed project, discuss opportunities for students to co-author published works
- Include a detailed budget justifying student stipend requests and/or an expense allowance

If the team sponsor is not a tenure-track faculty member, a copy of the sponsor's curriculum vitae should also be included. If the undergraduate members of the team have been selected, please complete the back of this form; otherwise submit student names after they've been selected.

Faculty Sponsor's Signature:	Date:	

Student Team Members

1.	. Name: Arielle Blum	tudent ID Number	: <u>810072516</u>	
3.	. Address: 600 Tantra Drive Bould	ler, CO	80305	
4:	: Telephone Number(s): <u>303-565-0926</u> 5. I	Major: Electric	al Engineering	9
6.	6. CU Email Address: amblum@colorado.edu 7.	Graduation Date:	May 2012	
1.	. Name: Armeen Taeb	tudent ID Number	: 830301305	
3.	. Address: 3622 Castle Peak Superior, CO	80027		
4:	: Telephone Number(s): 5. I	Major: Applied Math	hematics and EE	
6.	5. CU Email Address: Armeen.Taeb@Colorado.EDU 7.	Graduation Date:	May 2013	
1.	. Name: Nick Bertrand	tudent ID Number	995095519	
3.	. Address: 9195 Bear Creek Apartments	Boulder, CO	80310	
4:	: Telephone Number(s): 719-310-7701 5. I	Major: Applied M	Mathematics and E	CCE
6.	5. CU Email Address: Nicholas.Bertrand@Colorado.EDU 7.	Graduation Date:	May 2012	
1.	. Name: Mike Mozingo	tudent ID Number	810731459	
3.	. Address: 4920 Meredith Way Apt. 304	Boulder, CO	80301	
4:	: Telephone Number(s): 719-232-0525 5. I	Major: Electrical	and Computer Enginee	ring
6.	6. CU Email Address: Michael. Mozingo@colorado.edu 7.	Graduation Date:	May 2012	
1.	. Name: Khashi Xiong S	tudent ID Number	810664620	
3.	. Address: 953 Olin Court	Erie, CO	80516	
4:	: Telephone Number(s):	Major:Electrical	Engineering	
6.	6. CU Email Address: Khashi.Xiong@Colorado.EDU 7.	Graduation Date:	May 2012	

Narrative Proposal Section

Attach a narrative proposal, 5 pages maximum, outlining your request for funding. Please attempt to write the proposal in terms a non-expert can understand, though you may have to use technical language in some places as well. The narrative should include:

- 1. **Introduction:** State your research question. Tell us the objectives and purpose of both your portion of the work and those of the larger project within which yours is embedded if applicable, including its purpose and function within the students' degree requirements or academic or professional training or goals. Discuss the location of the research (laboratory or work site) and who will supervise students if not the faculty sponsor. Address the project's relevance and who will benefit from it. Supply justification for any off-site research.
- 2. **Background:** Situate this project with other research in the field by providing a review of the work that has already been done in this area. Discuss what theoretical tradition(s) you are drawing from that influence your approach to this project. If conducting community-based, action research situate the project in the known academic or community/international development literature relevant to your approach for this project. The students' own research experiences and how they have fulfilled the necessary background work for attempting this project should be included, as well as a discussion of the faculty sponsor's expertise.
- 3. **Methods:** Provide a detailed description of the research or design methods that will be used in the project. This should include justification for the specific approach or methods that will be employed. If applicable, discuss whether you'll be working with primary or secondary sources (or both) and/or what data will be the basis for your project. If you're using human subjects you should address how you'll find subjects, your methods for approaching them and gaining trust, how you'll deal with language or other barriers, how you plan to get Institutional Review Board (IRB) approval for the research protocol, and so on. If conducting community-based, participatory action research, describe the collective approach of your methods: how community/local participants will be engaged in the research, how results of the research will be published or disseminated to community/local stakeholders, how results of your collaboration with the community will be implemented in practice (or praxis), and in what forms you plan to document project outcomes for those interested in your field or the project's subject matter.
- 4. **Time Schedule:** Provide a step-by-step outline of the project including dates for the initiation and completion of each phase. Attempt to lay out a reasonable schedule taking into consideration all stages of the research as well as writing of the final report. Include how often you'll meet with your faculty sponsor.
- 5. **Budget Justification:** Explain how you will use the funds you have requested on your Budget Requisition.

Reference Section: Attach an alphabetical list of all work you've consulted in your background research and cited in the body of your narrative, in appropriate professional style customary for your discipline. Your bibliography should show that you've done the necessary preparation for this project.

Appendices: Attach any surveys or interviews you'll use in the research, permission for Human Subject Research, etc.

Abstract of the project

On a separate page (not included in the 5-page maximum narrative) provide a 100-word description of the research project, including its objectives or the objectives of the larger project within which yours is embedded.