2021-2022 Undergraduate Research Opportunity Program (UROP) Full Grant Application

Application Due: Friday, March 5, 2021, 5:00 pm MT
Funding Period: July 1, 2021 - April 30, 2022

The Undergraduate Research Opportunity Program (UROP) is a competitive grants program supported by the Office of Undergraduate Research & Creative Activities and the Office of Academic Achievement. UROP grants are designed to cover expenses, travel, and/or stipends for CU Denver undergraduates engaged in scholarly collaboration with CU Denver | Anschutz faculty. More information about the UROP program, including the evaluation rubric, is available at: https://www.ucdenver.edu/lynxconnect/undergraduate-research/grants

Eligibility Information:
Undergraduate students seeking UROP support must meet the following criteria:

1) Be a CU Denver undergraduate student working toward a baccalaureate degree
2) Maintain at least part-time status (6 or more credits) throughout the duration of the award*
3) Be in good academic standing at CU Denver with a minimum GPA of 2.5

*Students graduating Spring 2021 are ineligible to apply for a UROP award. Students graduating prior to the end of the 2021-2022 award period (Summer 2021, Fall 2021) may participate as the principal investigator of an individual project, but may not serve as the principal investigator of a team project involving two or more students.
Funding Available:
- Maximum budget request for an individual project: $1,200
- Maximum budget request for a two-student project: $2,400
- Maximum budget request for a three-student project: $3,600

*Only one application need be completed for projects involving multiple student investigators. The application should be submitted by the Principal Student Investigator (PI).

Application Materials:
1) Project Introduction
2) Project Objectives
3) Project Description
4) Bibliography
5) Project Timeline
6) Budget Narrative
7) Results Presentation
5) Unofficial CU Denver Transcripts for PI/co-PI's
6) Faculty Mentor Letter of Support
7) If applicable, proof of IACUC and/or COMIRB approval

The Faculty Mentor Letter of Support must be submitted by Friday, March 5, 2021, 5:00 p.m. MT to: https://ucdenver.co1.qualtrics.com/jfe/form/SV_1SNEgLlxOK2WsAZ

Terms of Award:
All awardees, including those who graduate prior to May 2022, are required to:

1) Attend two UROP workshops during the 2021-2022 academic year
2) Present the results of their grant-funded project at the 2022 CU Denver Research and Creative Activities Symposium (RaCAS), tentatively scheduled for April 29th, 2022
3) Complete a brief final report and program assessment

Questions? Contact undergrad.research@ucdenver.edu
### Application Section I: Principal Investigator (Student #1)

<table>
<thead>
<tr>
<th>Question</th>
<th>Description</th>
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<tbody>
<tr>
<td>Q1.</td>
<td>Student Principal Investigator (PI) First Name</td>
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<tr>
<td>Q2.</td>
<td>PI Last Name</td>
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<td>Q3.</td>
<td>PI Student ID # (9-digits)</td>
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<td>Q4.</td>
<td>PI Major</td>
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<td>Q5.</td>
<td>PI Minor</td>
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<td>Q6.</td>
<td>PI 6-digit Employee ID # (if previously employed by the University of Colorado)</td>
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<td>Q7.</td>
<td>PI Primary Phone #</td>
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<tr>
<td>Q8.</td>
<td>PI CU Denver E-mail</td>
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</table>
Q9.
PI CU Denver GPA

Q10. PI CU Denver Expected Graduation Date

Note that students graduating prior to the end of the 2021-2022 award period (Summer 2021, Fall 2021) may participate as the principal investigator of an individual project, but may not serve as the principal investigator of a team project involving two or more students.

Q11. PI Unofficial CU Denver Transcript (upload here):

Q12. Optional: Your application may be eligible for additional funding sources based on the following criteria. Responses to this section are entirely optional and will not be considered when scoring applications.

- [ ] I represent a historically underrepresented minority group
- [ ] I graduated from a high school in a rural community (outside urban area)
- [ ] I am a first generation college student (neither parent/legal guardian has received a baccalaureate degree)
- [ ] I am not any of the above.
- [ ] I decline to answer.

Co-PI #1
<table>
<thead>
<tr>
<th>Question</th>
<th>Field</th>
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<tbody>
<tr>
<td>Q13.</td>
<td>Co-PI First Name</td>
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<tr>
<td>Q14.</td>
<td>Co-PI Last Name</td>
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<td>Q15.</td>
<td>Co-PI Student ID # (9-digits)</td>
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<td>Q16.</td>
<td>Co-PI Major</td>
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<td>Q17.</td>
<td>Co-PI Minor</td>
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<td>Q18.</td>
<td>Co-PI 6-digit Employee ID # (if previously employed by the University of Colorado)</td>
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<td>Q19.</td>
<td>Co-PI Primary Phone #</td>
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<tr>
<td>Q20.</td>
<td>Co-PI CU Denver E-mail</td>
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</tbody>
</table>
Q21. Co-PI CU Denver GPA

Q22. Co-PI CU Denver Expected Graduation Date

Q23. Co-PI Unofficial CU Denver Transcript (upload here):

Q24. Optional: Your application may be eligible for additional funding sources based on the following criteria. Responses to this section are entirely optional and will not be considered when scoring applications.

- [ ] I represent a historically underrepresented minority group
- [ ] I graduated from a high school in a rural community (outside urban area)
- [ ] I am a first generation college student (neither parent/legal guardian has received a baccalaureate degree)
- [ ] I am not any of the above.
- [ ] I decline to answer.

Co-PI #2

If Applicable, Application Section II: Co-Principal Investigator (Student #3)

Q25. Co-PI First Name
Q26. Co-PI Last Name

Q27. Co-PI Student ID # (9-digits)

Q28. Co-PI Major

Q29. Co-PI Minor

Q30. Co-PI 6-digit Employee ID # (if previously employed by the University of Colorado)

Q31. Co-PI Primary Phone #

Q32. Co-PI CU Denver E-mail

Q33. Co-PI CU Denver GPA

Q34. Co-PI CU Denver Expected Graduation Date
Q35. Co-PI Unofficial CU Denver Transcript (upload here):

Q36. Optional: Your application may be eligible for additional funding sources based on the following criteria. Responses to this section are entirely optional and will not be considered when scoring applications.

- I represent a historically underrepresented minority group
- I graduated from a high school in a rural community (outside urban area)
- I am a first generation college student (neither parent/legal guardian has received a baccalaureate degree)
- I am not any of the above.
- I decline to answer.

Application

Application Section II: Project Information

Q37. Project Title

Q38. Proposed Project Start Time

- Summer 2021
- Fall 2021
- Other (explain)
Q39. Amount Requested (dollar amount)

- Maximum budget request for an individual project: $1,200
- Maximum budget request for a two-student project: $2,400
- Maximum budget request for a three-student project: $3,600

Q40. Faculty Mentor First Name

Q41. Faculty Mentor Last Name

Q42. Faculty Mentor Title

Q43. Faculty Mentor Department

Q44. Faculty Mentor CU Denver E-mail

Q45. Project Introduction (2000 character limit)

Provide background justification for your project or activity based on previous work in the discipline. Explain how the activity promotes new knowledge and learning. Previous
Q46.

**Project Objectives** (1200 character limit)

Briefly summarize the objective(s) of your proposed research, creative, or other scholarly activity.
Q47.
**Project Description** (7000 character limit, approximately 2 pages)

Describe your research, creative, or other scholarly activity in detail. Enter text directly into this box or paste from another source.

If you would like to include supplemental figures, tables, or images you may upload a separate document below.

Q48.
**Project Description: Supplemental Figures** (optional)
Q49. Bibliography

Provide the bibliography (minimum 3 references, maximum 10 references) for references included in your Project Introduction and Description.

Applications without scholarly references (peer-reviewed journal articles, books, etc.) will not be rated as highly as those with scholarly references.

For assistance developing this aspect of your application, consider engaging the Auraria Library: https://library.auraria.edu/savvy-researcher-workshops

Q50. Project Timeline

In list format, provide a detailed timeline, including approximate dates of when project milestones will be reached. If you anticipate any conference attendance or presentations during the award period, please include these as well. Begin with the award date (July 1, 2021) and culminate with your required presentation at RaCAS (Friday, April 29, 2022).
Q51. **Budget Narrative**

Specify the full amount being requested along with an itemized list of expenditures and justification. Explain how the budget items support the UROP project and objectives.

- If you are requesting supplies, include a price estimate and source for that estimate.
- If you are requesting a stipend, estimate the number of hours to be spent working on this project and how that breaks down as an hourly wage. Explain how the stipend will support the completion of your UROP project.

Q52. **Results Presentation**
Explain how the results of this project will be presented. Besides the required presentation at RaCAS, will the results be presented at other conferences, exhibited, published, or otherwise disseminated? Be as specific as possible.

Q53. In preparing your UROP application, did you utilize any of the following CU Denver resources?

Check all that apply.

☐ The Writing Center (workshop, appointment, etc)
☐ The Auraria Library (workshop, meeting with Research Librarian, etc)
☐ Office of Undergraduate Research & Creative Activities (workshop, met with research advisor, etc)
☐ Faculty mentor previewed application (this is expected as part of submitting a successful and thorough application to the UROP reviewing committee)

☐ None
☐ Other: ______________________

Regulatory Bodies

. Application Section III: Regulatory Bodies

Undergraduate research, creative, or other scholarly activities that involve human subjects, animal care and/or areas of risk may need permission, waivers, and/or
arrangements that comply with University of Colorado Denver policies established by the Human Subjects Research Committee, the Institutional Animal Care and Use Committee, and/or the University of Colorado Office of Risk Management.

Faculty mentors are responsible for completing the appropriate forms and following the policies for the research requirements below. These should be completed as soon as possible, so that students have ample time to complete their proposals. Funds will not be released until proof of appropriate approvals has been submitted to UROP program coordinator, Mary Baitinger (mary.baitinger@ucdenver.edu).

Q54. Does the proposed UROP activity involve gathering information from human subjects or using data previously obtained from human subjects?

If you are unsure whether your project falls under COMIRB regulations, we suggest attending their virtual office hours or arranging a 1:1 consultation - https://research.cuanschutz.edu/comirb/home/about-comirb/office-hours

☐ Yes
☐ No

Q56. Does the proposed UROP project involve gathering information from animal subjects

☐ Yes - Please answer the next question
☐ No

Q58. Does the proposed UROP project involve any of the following possible CU Denver Risk Management Issues?

- Use of non-university facilities (space, equipment)
- Travel (local, national, or international)
- Minors (less than 18 years old)
- Non-university personnel
- Use of any hazardous radioactive/biological/chemical materials

☐ Yes - Please answer the next question
☐ No

Q119. If my project requires COMIRB, IACUC, or Risk Management approval, I understand that I must email Mary Baitinger (mary.baitinger@ucdenver.edu) copies of the approved protocols and that grant funds will not be released until these are received.

☐ Yes
☐ Other

Mentor Letter

. Application Section IV - Mentor's Letter of Support

Q60.

Faculty Mentor Recommendation

Your mentor must submit a one-page letter of support by Friday, March 5, 2021, 5:00 p.m. Applications will not be considered complete until this letter is received.

Letters should be submitted to: https://ucdenver.co1.qualtrics.com/jfe/form/SV_1SNEgLlxOK2WsAZ

The letter should include the following:

1) assesses your proposed research, creative, or other scholarly activity, including efficacy
2) describes how the activity contributes to your professional development
3) assesses your academic preparation
4) clarifies their role as mentor, including how often you will meet and how they will support you throughout the project
Q61. I understand my mentor needs to submit a one page letter of support by the deadline for my proposal to be given full consideration.

☐ Yes
☐ Other: 

Award Terms

. Application Section V: UROP Award Terms

Q62. If your project is selected for funding, the following agreements will be enforced. Type your full name for each statement that indicate you agree to honor their intent.

Q63. **EXPENSES** I will use awarded UROP funds only for the stipend and/or expenses detailed in the original Budget Narrative. I will contact Mary Baitinger (mary.baitinger@ucdenver.edu) prior to making any equipment purchases or incurring any travel expenses to ensure that University policies and procedures are followed. If my budget plan deviates by more than 20% of my original budget plan, I will provide written justification to the UROP program (mary.baitinger@ucdenver.edu).


Q64. **STIPEND** If I receive a stipend, I understand that I must become a CU Denver University employee, provide my Social Security card, driver’s license, bank account information, and undergo a criminal background check. I understand that stipends are reported to the IRS as income.


Q65. **MENTOR APPROVAL** My mentor has read and reviewed this grant proposal and approves all aspects of the proposed research or creative activity.
Q66. **MENTORSHIP PARTICIPATION** If I receive an award, my faculty mentor has agreed to mentor my project, which includes meeting with me on a regular basis, providing budget oversight, and working with the Office of Undergraduate Research & Creative Activities, as needed, regarding adherence to university policies and procedures.

Q67. **EQUIPMENT/SUPPLIES** I understand that all equipment and supplies purchased with UROP funds become the property of the University of Colorado Denver. Items having a use beyond the grant project (e.g., video equipment, computer hardware, geologists’ hammers, binoculars, etc) must be returned to the department of the Faculty Mentor.

Q68. **NON-TRANSFERABLE FUNDING AND CHANGES IN BUDGET** I understand that UROP funds are not transferable and must be used prior to graduation or April 30, 2022. I understand that equipment and travel funds cannot convert to a stipend later. However, stipends can convert to equipment/travel funds. If there is a change in my student status (graduation, unenrollment, etc.) or I am unable to expend the UROP funds, I will immediately notify the Office of Undergraduate Research & Creative Activities to review the impact on my budget.

Q69. **ENROLLMENT** I will enroll for a minimum of 6 credit hours per semester during the time the proposed project is conducted. I will complete my project prior to graduation or April 29, 2022. If I am entering a graduate program during the length of the UROP award, I understand that I am no longer eligible to receive funding.

Q70. **ACKNOWLEDGEMENTS** I will acknowledge financial support received from the CU Denver Office of Undergraduate Research & Creative Activities and UROP in any articles, presentations, exhibits, recitals, etc. that result from this funding.

Q71. **RaCAS** I will present the results of the UROP-funded project at the 2022 Research and Creative Activities Symposium (RaCAS), tentatively scheduled for Friday, April 29, 2022, as a stipulation of UROP grant funding.
Q72. **FINAL REPORT** Upon completion of my UROP project, I will submit to Office of Undergraduate Research & Creative Activities a faculty mentor-approved final report, outlining my project’s goals, process, and accomplishments. I understand that UROP final reports are due on or before April 29, 2022. If I graduate early, the report is due before finals in the semester I graduate.