

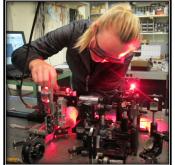
Please note: This document is provided so that students can preview the application questions and prepare their responses. All interested students must submit an online application via submittable.com



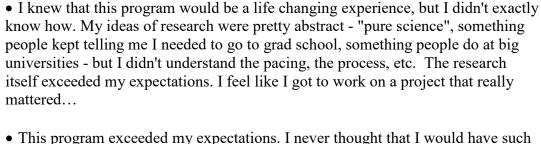
Testimonials & Advice from Students who have Participated in TTE REU Program



- •I learned a lot about the different aspects of research. I got some experience designing, troubleshooting, and actually performing my experiments. I learned a multitude of skills and techniques which are fundamental to any micro or molecular biology lab. I was also able to become familiar with the dynamic of a research laboratory. I improved my ability to speak, specifically, my ability to communicate science effectively.
- This experience has really reinforced my knowledge of my own love for learning. It's also shown me that I can go into a lab and do the work.



• This program went above and beyond my expectations. I had expected to come in and learn some new skill, but it was so much more than that, it inspired me to follow my passions to end up doing research in something I love.





• This program exceeded my expectations. I never thought that I would have such an amazing experience. I truly enjoyed my time in the lab and my time with my new friends. I have met such a diverse group of people also interested in engineering and have found people that I connect with. I expected to learn a lot in the lab and about research this summer. But I never expected to have such close friends from this program.



- I would tell them to definitely apply for the program because it will be worth their time. I would tell them to prepare to work very hard but that they will have a lot of support.
- This has been the most life changing experience of my life. I have so much more confidence in myself and my abilities to succeed at a four year institution. I also had little desire to pursue a graduate degree before coming to this program and I am now completely certain that I will attend graduate school after I finish my bachelor's degree

94% (97) of TTE Participants have transferred to a four-year university. 59% enrolled at UC Berkeley

All interested eligible students are strongly encouraged to apply

Online applications, transcripts, sample work, & recommendation letters must be received by Sunday, January 31, 2021 at 11:59 pm

I. Program Eligibility

California Community college students who:

- Have completed nearly all the requirements for transfer to a 4-year institution in your intended major.
- Will continue at community college in Fall 2021 and subsequently apply for junior standing transfer admission to 4-year institution from community college. Please do not apply to this program if you applied for and/or intend to enroll in any four-year institution in the 2021-2022 academic year (except through concurrent enrollment).
- Are fully intending and academically prepared to apply to a 4-year institution as a community college transfer student in Fall 2021in order to enroll in Fall 2022.
- Are planning to major in a science or engineering at a 4-year institution after transfer.

II. Program Basics

- Spend nine weeks at Berkeley pursuing independent research *full-time* on a topic related to your intended major under the one-to-one mentorship of a Berkeley faculty member.
 - o Attend a 1-day orientation to prepare you for your work
 - O Attend a 5-day lab fundamentals bootcamp to prepare you for your work
 - Receive on-going support from your faculty mentor and research program staff to successfully complete your work
 - O At the end of the summer you will deliver an oral PowerPoint and Poster presentation on your research in a closing symposium and submit a 2-page report of your work
 - o Receive a certificate of program completion
- Receive free housing and meals on the UC Berkeley campus. The program will also cover transportation costs to and from Berkeley (up to \$300).
- Receive a summer stipend of \$3,600.
- Receive Berkeley course credit for your work. The program will pay for course fees.
 - Your grade will appear on a Berkeley transcript, which you can submit with your transfer application.
- Meet and share your experience with research students like yourself from community colleges across California including through planned social events.
- Attend seminars on preparing for science and engineering careers and applying to 4-year institutions.

III. Program Benefits

- You will be able to truly participate in the wonderfully diverse Berkeley intellectual, social and cultural community and familiarize yourself with issues related to your prospective major and with the world-class faculty and resources on campus.
- You will be able to speak from authority and experience about your interest in your major in your transfer application.
- You will develop research skills and abilities that will impress admissions officers, faculty and departments.
- Imagine being able to describe the research you did in the lab of the chairperson of the department you are applying to!
- Assuming you do well, you will gain a faculty advocate who can attest to your abilities.
- The TTE Program collaborates with UC Berkeley's Transfer Alliance Project (TAP). TAP is a highly successful academic advising and enrichment program that prepares low-income and otherwise educationally disadvantaged community college students throughout California to be competitive transfer applicants to UC Berkeley and other four-year colleges. TAP succeeds by providing one-to-one personalized advising including design and monitoring of individual academic course plans and assistance with transfer applications, required personal essays, financial aid forms and scholarships applications. All TTE participants are enrolled in TAP and are able to continue to access TAP services upon their return to their community college.

IV. Dates

• June 11 – August 14

V. Frequently Asked Questions

Who should I ask for my letters of recommendation? Recommendations should be from faculty members and mentors. It's important for you to know what a weak letter of recommendation is: a weak letter is one that says you are a good student and nothing else. A strong letter of recommendation will be: this student is great, and then go into detail about why the recommender believes that you are so good based off of your previous interactions. Be sure to let your recommenders know that faculty and graduate students review the applications, so that they can gear their letter towards that audience.

Do I need research experience to apply? No! We strongly encourage you to apply regardless of past research experience, especially if you are an underrepresented student in science and engineering (underrepresented minorities, women, veterans, and persons with a disability). One of the goals of this program is to give research experience to students who would not otherwise be able to at their community colleges.

What majors will be considered? All science and engineering majors, including but not limited to: biochemistry, bioengineering, biophysics, chemical biology, chemical engineering, chemistry, civil engineering, computer science, electrical engineering, engineering math & statistics, engineering physics, environmental engineering, genetics, materials science, mechanical engineering, molecular and cell biology, molecular toxicology, and physics.

I am planning to transfer to a 4-year institution next fall; can I apply to the TTE REU program? No. All students must be planning to return to a California community college in the fall after participating in the TTE REU program.

I am an international student; can I apply to the TTE REU program? No. Unfortunately, we cannot accept students on non-immigrant visas for our research programs as we are funded by the National Science Foundation, a federal agency.

I am an undocumented (dreamer/AB-540) student; can I apply to the TTE REU program? Please contact our Program Director, Nicole McIntyre at nicolemcintyre@berkeley.edu directly.

What is sample work? Sample work is an excerpt of your academic or career related work (lab, computer program, test, paper, homework, etc.) that demonstrates your best work in the area you want to conduct research (no more than 5 pages). If the sample work is graded, please ensure that the grade is included.

When are the applications reviewed? Complete applications will be reviewed starting February 1 and selection should be completed by the mid-April.

How do I apply? Only online applications will be accepted. Transcripts, sample work, and letters of recommendation should be submitted through *Submittable*.

Where do I send my transcripts and sample work? On the application form, through *Submittable*, you will be able to upload your transcripts and sample work directly.

Can I submit an unofficial transcript? Yes, unofficial transcripts are accepted and preferred. If admitted, you will be expected to provide an official copy of your transcript.

How long before the deadline should things be submitted? All application materials must be <u>RECEIVED</u> by January 31. We do not accept late application documents.

How will I know when my application is complete? The application portal will allow you to check the status of your application.

I have more than one area of interest, should I include them all? Yes. Provide as much information as you can to aid TTE REU in the selection process. It is also best to be as specific as possible in order to appropriately match you with a faculty mentor.

How are applications chosen? The selection process is primarily based on academic merit and technical preparation. A selection committee will also take into account the applicant's attributes, like technical interests, academic and career aspirations, and life experiences. Finally, UC Berkeley faculty members who have research projects for community college students select from a short list of applicants recommended by the selection committee.

How are research mentors chosen? Students are matched to a research mentor who does research in the area of the student's interest. On your application, applicant identifies research areas/centers of interest. If admitted into the program, the admissions committee does its best to place interns in one of their top choice, or in the closest area of research.

How are research projects chosen? Projects are chosen for the students based on the interests they list on their applications. We try to match the student's interests to a project that a mentor has for the summer. These projects change yearly and are dependent upon the mentor's needs. If chosen to be a part of a project, the mentee and mentor will work out between them what the project will entail.

When will I find out if I am accepted into the program? Students are notified of their acceptance into the program by mid-April.

How long do I have to accept an offer? Once you are notified of admission into TTE REU, you will have one week to accept.

If accepted into TTE REU, does that guarantee admission into UC Berkeley as a transfer student? No. All TTE REU interns have an opportunity to interact with a number of UC Berkeley faculty, administrators, and students. However, acceptance into TTE REU does NOT guarantee admission into UC Berkeley as a transfer student.

What if my final exams conflict with the program dates? Students are required to participate for the entire duration of the program. If your final exams conflict with the program start date, you should arrange to take your exams earlier.

Can I take classes while participating in TTE REU? No. TTE REU interns cannot take classes while participating in the program. They are expected to spend the majority of their time in lab as well as completing their TTE REU deliverables.

Other questions? Please contact Nicole McIntyre at nicolemcintyre@berkeley.edu.

VI. How to Apply

This document is provided so that students can preview the application questions and prepare their responses. All interested students must submit an online application via submittable.com

Application Requirements

- Completed online application form
- Two recommendations: at least one from current faculty in science or engineering
- Unofficial academic transcript from all colleges attended
- Sample work

To apply to the TTE REU program, follow these steps:

Step 1: Complete the on-line application through the Submittable portal: https://e3s.submittable.com/submit/176211/2021-transfer-to-excellence-summer-research-program

Step 2: Ask your recommenders for a letter of recommendation and inform your recommenders their letters must be RECEIVED by our office no later than 11:59pm on January 31, 2021. In the application, you will be asked for who your recommenders email addresses. In order to have your recommenders receive the link to submit recommendations, you will need to **submit** an application. Please note, that you will still be able to edit your application, even after you submit.

<u>Important</u>: Please note that upon initial submission, you will not be able to immediately go back and edit your responses. First it needs to be approved by the Center staff. We approve applications within 24 hours after being submitted, so please check back at a later time in order to edit your responses.

Step 3: Submit an **unofficial** copy of your transcript(s) through the Submittable portal. Please note you must send a transcript for **every institution you have attended**. Admitted applicants will be asked to submit an official transcript at the time of acceptance.

Step 4: Submit your sample work (maximum 5 pages) through the Submittable portal. Sample work can be a test, homework, lab, or other project that demonstrates your best work in the area you would like to conduct research. If sample work is graded, please be sure it is included. If sample work you submit is more than 5 pages, we will cut off anything past five pages while compiling the applications.

Questions can be addressed to:

Nicole McIntyre
TTE REU Program Director & E³S Director of Education & Outreach
<u>nicolemcintyre@berkeley.edu</u>

Instructions: (Please Read)

- ALL applicants should complete sections I -VII and submit transcript(s) and sample work.
- Tips for a Successful Application:
 - 1. Be confident that we are eager to read your application; our questions are there to help us get to know you better, not to make you stumble.
 - 2. Carefully read and follow all instructions. Read through the entire application once before filling it out.
 - 3. Make sure you save plenty of enough time to complete the application -- to research what you want to study or research, and in terms of your essay(s) to think about what you want to write and then to write and revise. All essays should be written/revised at least 3 times and shown to teachers/academic advisors that you trust.
 - 4. Double-check to make sure you have followed all instructions and completed all the Required Sections and provided all the requested documents. Incomplete applications will not be reviewed.
 - 5. Answer all questions honestly.

I. Personal Information

Name:			
First	Last		
Address:			
Street	City	State	Zip
Email Address:			
Birthday:			
Cell Phone:	Alternate l	Alternate Phone:	

Demographic Information: Why is this information being requested? Collection of this information is authorized by the NSF Act of 1950, as amended, 42 U.S.C. 1861, et seq. Demographic data allows NSF to gauge whether our programs and other opportunities in science and technology are fairly reaching and benefiting everyone regardless of demographic category; to ensure that those in underrepresented groups have the same knowledge of and access to programs and other research and educational opportunities; and to assess involvement of international investigators in work supported by NSF (E3S National Science Foundation Cooperative Agreement No. 0939514).

<u>Citizenship Status</u> : U.S. Citizen □; U.S. Permanent Resident □; Other □ (Specify)
Gender: Male □; Female □; Decline to Answer □; Gender Nonconforming □; Other □
Ethnicity: Are you of Hispanic, Latino, Chicano, or Spanish origin? Yes □ No □; Decline to Answer □
Race (Check all that apply):
African American or Black Asian (e.g., Asian Indians, Chinese, Filipino, Japanese, Korean, Vietnamese, other Asian) Caucasian or White Native American or Alaska Native Native Hawaiian or Other Pacific Islander (e.g., Guamanian, Chamorro, Samoan) Decline to Answer Other (Specify)
<u>Disability</u> : Yes □; No □; Decline to Answer □; If yes, please specify:
Veteran: Yes □; No □; If yes, please specify branch and dates served:
Highest Education Level of Mother/Parent-Guardian I: Less than Middle School □; Middle School □ High School/GED □; Some College□; AA/AS □; BA/BS □; Graduate School □; Other □ (Specify)
Highest Education Level of Father/Parent-Guardian II: Less than Middle School □; Middle School □ High School/GED □; Some College□; AA/AS □; BA/BS □; Graduate School □; Other □ (Specify)
Educational Information:
Are you currently receiving, or have you recently received a Pell grant? Yes No
Current Community College:
Cumulative G.P.A.: Intended major:

Intended transfer year to a 4-year institution:				
Select the organization or groups you are involved with as a community college student (check all that apply):				
☐ Center for Science Excellence (CSE),				
☐ Mathematics, Engineering, Science Achievement (MESA),				
☐Transfer Alliance Project (TAP),				
☐ UCLA Center for Community College Partnerships (UCLA CCCP),				
☐ Puente Project (Puente)				
☐ Other, please specify:				
II. Statement of Program Eligibility				
I will be enrolling in Fall 2021 at a community college before applying to a 4-year institution as community college transfer student with junior standing. I will not be enrolling at any 4-year institution during the 2021-2022 academic year (except through concurrent enrollment): True □ False □				
III. Transcripts				
• Please submit transcripts from all colleges you have attended. Your transcripts <u>must</u> include the classes you are taking currently.				
• Did you ever take any Advanced Placement (AP) courses or International Baccalaureate (IB) courses? If yes, please list and submit your course scores with your transcripts:				

IV. Personal and Academic Experience (all sections are required)

A. Essays

- 1) Please explain why you wish to conduct summer research and how this relates to your overall interests and goals, including intended 4-year institution major and future career. Please be specific about how you think this research opportunity will benefit you. (300-500 words)
- 2) Past summer program participants have found the program to be both the most rewarding and yet most challenging experience of their life -- please describe a major challenge you have encountered in your life, how you overcame it, and what you learned about yourself and others as a result of the experience. (The experience can be taken from <u>any</u> aspect of your life; it does not need to be related to academics) (300-500 words)

B. Research Interests

To help us best understand your research interests and match you with a faculty mentor, please answer the following questions. Please note, we will try to place you in a research experience that most closely matches your interests, but we cannot promise that you will work with any particular person or department.

The TTE REU program is a collaboration among Berkeley engineering faculty members. Please indicate which research area(s) sounds most interesting to you and why? (see Past Projects and Exciting
Research Areas on the TTE REU website) (Maximum: 100 words)
C. Sample Work
• Please submit an <u>excerpt</u> of the academic work (lab, computer program, test, paper etc.) that demonstrates your best work in the area you want to conduct research (no more than 5 pages).

V. Letter of Recommendation

Two letters of recommendation are required. Print and fill out the top portion of the Letter of Recommendation Form (found on *Submittable* and on the TTE REU Website). Give this form to your recommenders and inform them that their letters (plus form) must be <u>RECEIVED</u> by Sunday, January 31 at 11:59pm.

List below the contact information of your recommenders whom you will contact for a letter of recommendation. Be sure to tell your recommenders to look for an email from *Submittable* and/or E3S. If they do not receive the email, ask them to look through their junk folders before contacting the TTE program.

1.		
	Email Address	
2		
	Email Address	

VI. Program Expectations

The Research program will take place for 9 weeks from June 11 – August 14. Students accepted into the program will be expected to conduct research <u>full-time</u>, by this we mean a <u>minimum</u> of 40 hours per week.

1. The Transfer-to-Excellence program is accepting applications for the 2021 cohort despite the ongoing public health crisis and campus closure. Please note that the 2021 Transfer-to-Excellence program may be a remote web-based internship; This decision will be made as the situation evolves in Spring 2021. Please indicate if you are interested in a remote internship.

Transfer-to-Excellence Research Experiences for Undergraduates 2021 Summer Research Program at UC Berkeley am also interested in a remote internship, should an in-person program n

☐ Yes, I am also interested in a remote internsh ☐ I am not interested in a remote internship.	ip, should an in-person program not be possible.
2. Are there any dates from June 11 – August 15 when please list and explain why this absolutely cannot be	
3. Are you able and willing to devote a minimum of 40 Yes □ No.	hours per week on your research project?
4. Research Program participants cannot work or be encourses, unless there are extenuating circumstances. Deare in the Research program? Yes □ No □. If yes, pleado this and how you will still be able to devote yoursel	o you plan to work or enroll in courses while you ase explain the circumstances that require you to
5. SHOULD AN IN-PERSON PROGRAM BE POSSI All research participants are expected on to live on the the entire summer program, including weekends, unless receive prior permission. Can you live on the Berkeley Yes No.	UC Berkeley campus in provided housing during as there are extenuating circumstances and you
6. Are you applying to any other summer programs? (Toprospects in the TTE Program) Yes □ No.	This answer will in no way affect your admission
If yes, please list these programs and when you will fir your first choice?	nd out about these opportunities. What program is
7. I understand that as part of the application process, a prospective faculty mentors and/or Summer Research	11 ,
8. How did you learn about the TTE REU Program?	_
VII. Statement of Verification (to be read and signed	by all applicants)
I hereby certify to the best of my knowledge that all infattached required documents including essay(s) is acceptant the Transcript(s) accurately reflects my grades. It information, I will, if accepted, be immediately remove applicable) and required to reimburse all costs of serv	urate, complete and my own work. I also certify understand that if I knowingly provide incorrect ad from the Summer Research Program (as
Signature	Date