

Undergraduate Research Grant Program 2021–2022 Granting period

FACULTY SUBMISSION APPLICATION FORM

SUBMISSION DEADLINE: no later than 4 p.m. Friday, April 16, 2021.

Award decisions will be made no later than Friday, April 30, 2021.
Applicants and Faculty mentors will be notified via email.

IMPORTANT INSTRUCTIONS:

The application is to be submitted in two parts (see details below).

- **PART A IS TO BE SUBMITTED BY THE STUDENT AS A SINGLE PDF FILE**
 - This Application Form completed
 - A general description of the proposed research and budget in table format on form provided, and
 - Unofficial Transcript
- **PART B IS TO BE SUBMITTED BY THE FACULTY MENTOR AS A SINGLE PDF FILE**
 - The faculty member to provide a more detailed description as well as a broader impact statement in **Part B**.
- Submit PDF files to Kathy Ferguson (kathy.ferguson@tcu.edu).

COVER PAGE INFORMATION

(complete ALL sections, marking NA where applicable, submit this Application Form with narrative and budget)

Name of student(s)	
Faculty research mentor(s)	
Faculty research mentor(s) email	
Total funds requested (round to nearest dollar)	
Concise Title of research project	
Previous Undergraduate SERC Awards (describe how this request differs OR provide justification for additional funding)	

SERC Undergraduate Research Grant Program Spring 2021 Application Round

This application covers research for the 2021–2022 academic year

FACULTY SUBMISSION

Application Deadline: 4:00 pm, Friday April 16, 2021

GENERAL INFORMATION

The Science & Engineering Research Center (SERC) will be awarding research grants for the 2021 – 2022 academic year to undergraduate students engaged in research with faculty in the TCU College of Science & Engineering. Proposals from all academic departments in the College are welcome and encouraged.

The Fellowships

- Each fellowship will range from \$500 to \$1,500 depending on the indicated need of the research project.

Student Eligibility Requirements

- Student must have junior or senior standing with an anticipated graduation in May 2022, or later (exceptions can be made to include well qualified sophomore students upon the recommendation of the Faculty mentor). Student must have a minimum GPA of 2.5 in Mathematics and Science courses at TCU.
- If the student applicant had a previous project funded by a SERC grant, they must have presented the results of that project at a College of Science & Engineering Student Research Symposium (SRS).

Expectations

The grant period begins on June 1, 2021 and expires April 30, 2022.

- **Note: Purchase Order requests accepted up to April 1, 2022; Invoices and reimbursement requests accepted only to April 30, 2022.**
- Grant recipients are required to present a poster describing their research at the College of Science & Engineering SRS, during, or in the year immediately following, the grant period.
- Grant recipients are required to **submit a one-page summary** (a brief description of the project and the main results) no later than May 7, 2022 (end of Spring 2022 semester). The summary should include a layman's introduction and be emailed to kathy.ferguson@tcu.edu.

Evaluation Criteria

Proposals will be reviewed by members of the SERC steering committee. The proposal is evaluated based on the following criteria:

Project Criteria:

- Clarity of the project description
- Appropriateness of the approach and/or method
- Broad impact statement
- Details of budget request
- Likelihood of a successful outcome

Student Criteria:

- Overall academic performance (as indicated by coursework and GPA)
- Recommendation letter from the faculty mentor
- Success of possible previous SERC grant (preference may be given to new SERC applicants)

Faculty Mentor Criteria:

- Mentoring plan

PART B – FACULTY MENTOR

To be completed and submitted by Faculty mentor (or one of the faculty members if several are involved in the project)

1. Describe the approach/method, which will be used to carry out the proposed project or creative activity. Explain why this is a reasonable approach that should result in a high likelihood of a successful outcome. (Limit your narrative to 250 words or less).
2. Describe the potential **broader impact of the research** (limit your description to 250 words or less), e.g. describe how the research may impact:
 - a. Integrating research and education,
 - b. Broadening participation of underrepresented groups,
 - c. Enhancing infrastructure for research and education,
 - d. Broad dissemination of scientific ideas and methods (general scientific literacy),
 - e. Direct benefit to society,
 - f. Increased partnerships between academia, industry, and other,
 - g. Improved national security,
 - h. Increased economic competitiveness of the U.S.
3. Describe how you plan to mentor (support) the student throughout the proposed activity. Be specific as to how you will supervise your student's research progress (i.e. number of weekly meetings, reading assignments, lab time, activity milestones, etc.) (Limit your description to 250 words or less).
4. CONCLUDE with a letter of recommendation for your student.

Mentor: Create a single PDF of all documents in the order listed above (1 – 4) and email to: kathy.ferguson@tcu.edu.

Note: Only the materials requested on this application form will be forwarded to the review committee.

Faculty narrative: Description of approach/methodology (250 Word limit)

Faculty narrative: Description of the broader impact of this research (250 Word limit)

Faculty narrative: Description of how you plan to mentor / support the student (250 Word limit)

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Faculty Letter of Recommendation