

Q15. Proposing Group Information

Q1. Proposing group name (examples: Career Services, Student Diversity Center)

TrickFire Robotics

Q2. Department/Organization (examples: Student Engagement and Activities, Student Affairs, Academic Affairs)

STEM Department

Q3. Contact Person

This person will be the sole point of contact for any questions or additional information requests from the SAF Committee regarding your proposal.

Evelyn Chew

Q4. Contact Email

- This person will be the sole point of contact for any questions or additional information requests from the SAF Committee regarding your proposal. Please include a regularly checked email as the SAF Committee contacts groups primarily through email.

tfrbtcs@uw.edu

Q5. Budget owner

- Before submitting, you must discuss and receive approval on your request from a staff or faculty member (i.e. Student Affairs Staff or faculty adviser) who will agree to be the budget owner and responsible for managing this allocation. Include the name and title (i.e. John Smith, Club Adviser) of that individual below. **IMPORTANT:** Please ensure the faculty or staff member understands they will be the budget owner and responsible for managing a SAF allocation. This person must be authorized in UW procurement and fiscal systems and familiar with university purchasing policies and processes, and have approval from their supervisor.
- If you are a registered student club, you may email the Student Engagement and Activities Director and Assistant Director, Sam Al-Khoury at sea2@uw.edu and Carla Christensen at carla24@uw.edu as a resource for your request by December 29, 2020.

Dr. Jong Yoon, club advisor

Q6. Budget owner email

- Please provide the email of the faculty or staff member you discussed your request with.

Q14. Proposal Information

Q7. Executive Summary

- Please provide a concise overview of the program, activity, or service for which you seek funding. This summary should explain what you're requesting funding for. (1600 character limit, approx. 250 words or less)

TrickFire Robotics is a nonprofit, student-led robotics team based at the University of Washington, Bothell Campus. The team focuses on preparing students for industry through hands on experience. For the past 4 years, our main project has been to design and manufacture a Mars mining rover for the annual NASA Robotics Mining Competition at the Kennedy Space Center. Our top priority is to prepare students for industry through hands on experience working on large scale projects. Similar to last year, we are requesting funds to travel to the competition. By approving this grant, SAF will be continuing a path for students to develop their professional skills beyond the classroom, one that has already improved countless careers. COVID-19 has prevented our team from being able to physically work on the rover with the right people at the risk that someone might be infected. However, we are still continuing to work on the rover as best we can while remote – coding, designing, planning, and more. The NASA RMC was unfortunately cancelled last year, so we were not able to go. Knowing the current COVID-19 situation, we might not be able to attend the NASA RMC again this year. We still want to prep for the best and compete this year in any way possible, giving our students the opportunities they need.

Q8. Need for Program

- Please describe the need for this program or service. Explicitly describe how this program directly and/or indirectly benefits the campus community, i.e., what student opportunities would be absent without funding. This section should explain why you're requesting funding. (1600 character limit, approx. 250 words or less)

This team is more important than ever now as we continue providing a community in a time when people feel isolated from others. TrickFire and its project, the Lunar Rover, gives UWB students the opportunity to try something amazing while in college, gaining invaluable experience and knowledge that they can then translate directly to their future careers. This is would be difficult to achieve on their own. It allows any student on campus the opportunity to work on a large-scale engineering project, regardless of whether they are in STEM or not. We focus on the business side as well: finding funding, advertising, community networking, project management, and more. Last year, we had over a dozen graduating students use their experiences at TrickFire in their interviews, and are now working at high-paying jobs in the tech industry. We also get many alumni returning to guide this year's cohort as a way to give back to the team. Knowing the current COVID-19 situation, we might not be able to go to the NASA RMC in 2021. But with the vaccine, there is hope that we will be able to break of this pandemic within the next few years. If we are able to go to the NASA RMC in 2022, we want to ensure that we planned for funding it. No matter how long it takes for us to gather in-person again, we want to prep for the best and give our students the opportunity to develop crucial experiences they'll need.

Q9. Is this a new request?

(Partial means that one or more-line items of the submission is new but not necessarily the program or submission itself. Select No if the request is not new but was previously submitted under a different name; i.e., Student Assistants have a title change to Student Associates.)

- Yes
- No
- Partial

Q10. What on your request is new or has changed?

This question was not displayed to the respondent.

Q11. Strategic Plan

- How would you like to see this program grow/change/adapt, and what role does funding play into this vision? Please describe some key goals you are hoping to accomplish, now and in the future. (1000 character limit, approx. 150 words or less)

TrickFire Robotics wishes to continue competing in the NASA RMC for as long as possible, iterating on our models and developing new designs. As more alumni come back to mentor the team, we will be able to leverage their experience in industry to focus our students' professional development. We have already seen significant progress in the few years of operation and expect exponential progress as we get more dedicated mentor and current returning alumni continue to gain industry experience. Financially, TrickFire is trying to head for partial self-sustainability – that is, to not depend completely on the University for financial support. We hope to do this by getting sponsors from local companies like many UW Seattle Engineering teams do. This, of course, takes time; TrickFire hopes to change that over the next 5 years and work to get more sponsors.

Q12. Assessment

- Estimate how many currently enrolled students will likely benefit from your proposed service or program. If you have previous statistics from past programs, please feel free to include for comparison.
- What is the impact of your program and how do you measure the affects?
- If a new program, describe how you plan to assess the proposed service/program. Describe any metrics or operational targets your unit uses to assess its financial and operational health.
- (Supporting documents or materials are not required but may be presented in the hearing if desired.)

(1600 character limit, approx. 250 words or less)

We currently have roughly 70 students enrolled in our club. With this funding, we will work together to construct a robot. While working on the robot, we have concurrent sub-projects that help students with understanding different aspects of STEM and get students to communicate with each other. With our financial team, business students get the opportunity to collaborate with students with different majors. Student Engagement: We hope to create workshops that will allow a variety of participants to join and grow their skills. We hope to have at least 800 participants at our workshops. 1080 participants would show ideal growth. Financially: This year we have exceeded our fundraising goal raising approximately \$7,500 this academic year. Next year we hope to get at least \$10,000 from company sponsors which is in line with our 5 year plan.

Q13. Funding Categories

For these responses, please do not show the math on this proposal. Use the excel sheet for the actual math. Instead, in these sections, tell SAF about the category funding needed and provide the 'why' for the request. There is no character amount but you are asked to be concise in your response.

Q16. Salary Positions

Please briefly describe the positions you are requesting funding for. If there are differences or distinctions in positions, please explain what they are and do.

Q17.

Programming/Events

- Please briefly describe the program(s) you are requesting funding for. This also includes needs relating to security, honorarium, hospitality, and contracts, etc. Specify what programs are virtual.

Q18.

Facilities & Equipment Rentals/Set-Up/Purchases

- If you require facilities or equipment rentals/set-ups/purchases, please indicate that need here.

Q19.

Printing & Photocopying

- Note printing and photocopying expenses

Q20.

Office Supplies

- Note office supply expenses

Q23. Food and Refreshment

(note what and how much or often is for training and/or programming)

■ Please indicate why food is necessary in your proposal. If you are requesting food for multiple/different programs, please indicate how much or how often you'll be providing food at the given programs (i.e., three staff trainings and four large scale unique events).

■ Review the food policy/food form for the University policies before asking for food. The Food Policy and Food Approval Form can be found in this link: <https://www.uwb.edu/finance/food-approvals>

■ Understand that food for normal meetings is not allowed. Describe below the reason you are requesting food and how it meets the food policy. Please ensure that you are in compliance with applicable health and safety and per diem rates for meals. The per diem rates are available at the following link:

<http://finance.uw.edu/travel/meals#perdiem>

Q25. Transportation and Travel

- Describe the type of travel you are requesting (i.e in-state/out of state, local travel, as well as type of transportation). Please note that flight bookings are done through the University. Please provide justification for out of state travel.
- Note: Include professional development related travel in the professional development category.

We need to ship roughly 60kg to Florida for the competition. In previous years we've spent upwards to \$3000 for shipping through Fedex Freight. \$3000

Q26.

Professional Development

(note items that are for certification, note if required for position)

- Please describe the professional development opportunity. Please indicate the number of students, staff participating. Indicate if a professional development opportunity will result in a certification, and whether this certification is required for a job. This should include all costs associated with registration, air or ground travel, per diem, etc.
- Please ensure that you are in compliance with applicable per diem rates for meals and lodging. The rates are available at the following link: <http://www.gsa.gov/portal/content/104877>
- Note: Student travel arrangements are made through the University.

Every May, TrickFire travels to the annual NASA RMC in Florida. This is an integral event that the team prepares for the entire year. At the competition, we demonstrate the ability of the Moon rover that we spent the year building. Typically, the team brings 15 members to ensure that the event goes smoothly, but this year we plan on sending 10 members. Often the rover will need to be assembled and reassembled at the competition as well as be modified in between runs. The competition typically lasts 7 days. The pandemic currently creates an enormous amount of uncertainty, especially for in-person events. We are preparing for the competition as though life were normal, in the case that the coronavirus is eradicated by next May (when the NASA RMC 2022 competition occurs). If we are able to go next year, we as a team will ensure that we follow health guidelines, social distance, and wear masks. Approximate Distribution: Flights: \$6000 Hotel Room: \$7000 Food: \$3150 Car Rental: \$1000 Total: \$20150

Q28.

Promotional Items

- Are you requesting funds for promotional items?
- Please note that promotional items are limited to a total value of \$800; see SAF bylaw 5.A.5 for more details: <https://www.uwb.edu/studentaffairs/safc/safbylaws>

Q29. Operations

- Please describe operational items. This includes telecommunications, business cards, computer purchases, equipment, new hire packages, digital resources, etc.

- Phone lines should be calculated at \$10 per line per month

Q30. Uniforms

- If requesting funds for uniforms, provide details on what the items are, who they will be used by, and for what purpose.

The members who are going to the NASA RMC will need to represent our team, and therefore the uniforms will give a sense of uniformity. We plan on getting polo shirts with our logo on them. \$400

Q31. Other

- Are you requesting funds for any items that don't fall into the previous categories? Indicate them here.

Q32.

Total Amount (please note the total dollar value)

- Please list your total amount requested, please make sure all line items are on the spreadsheet. This total amount should match the total from the spreadsheet.

20550

Q33.

Your application is not complete without a completed spreadsheet and may not be considered by the committee. All funding category line items and their dollar amount/cost should be listed in the spreadsheet. Please download the spreadsheet template at <https://www.uwb.edu/studentaffairs/safc/annual>. Complete the spreadsheet, save it with your proposal name and EMAIL to safuwb@gmail.com by 5pm on January 7, 2020.

Location Data

