Women's Giving Circle Grant Application

Instructions:

1. Complete all information in the grant proposal application.
2. Adhere to recommended text limits as indicated
3. Define any acronyms that are used in the proposal.
4. Upload the WGC Grant Application Budget Request Sheet as the final page of this application.
5. Please note that the WGC will not accept repeat applications beyond more than two consecutive years.
6. If you have questions, contact your unit's development officer for any clarifications or assistance in preparing your proposal.
7. Applications are due to the Women's Giving Circle by 5:00 p.m., May 15, Monday. Please deliver your application to your dean or development officer for review and approval prior to the submission deadline. We advise you to give these individuals sufficient time to make recommendations for changes and allow yourself time to execute them.
8. Remember to save a copy of your proposal before final submission.
9. We ask that you keep the following aspects of the Women's Giving Circle grant program in mind as you complete your application:

Women's Giving Circle Mission

To support innovative programs and research at the University of Arkansas

Women's Giving Circle Vision

To engage and empower women as philanthropic leaders at the University of Arkansas

Women's Giving Circle Funding Priorities

Support and promote scholarship, research, and service
Enrich the quality of life of women and children
Encourage outreach and engagement in Arkansas

Areas that meet the strategic priorities for the university and the WGC

- Focus on retention/graduation
- Increase undergraduate opportunities, i.e., building the endowment; involving students in research or service learning project with a collaborative bent
- Promote graduate student participation in research
- Focus on collaboration
- Follow the land grant mission to fund projects that support needs in the region and the state with emphasis on collaboration between colleges/departments/units
- Invest in faculty excellence
- Recruit first-generation students from Arkansas
- Advance the mission of the WGC

Identifying Information:

College or Unit Affiliation

Dale Bumpers College of Agricultural, Food and Life Sciences
Fay Jones School of Architecture and Design
J. William Fulbright College of Arts and Sciences
Sam M. Walton College of Business
College of Education and Health Professions
College of Engineering
Honors College
Graduate School and International Education
School of Law
Student Affairs
University Libraries
Other

*Please specify **OTHER** unit affiliation:* _____

Title of Proposal: Soaring High in Engineering (SHE) Camp-Blytheville

Primary Contact and Title: Amy Warren, Asst. Director, Outreach and Summ

Primary Contact E-mail: alwarren@uark.edu

Primary Contact Phone Number: 479-575-2562

Project Summary (200 word maximum)

Since 2007, College of Engineering Summer Camps have been reaching students in Northwest Arkansas and, more recently, we have expanded our offerings to different locations throughout the state. Summer 2017 will see camps in Batesville, Bentonville, Blytheville, Camden, and Hot Springs, as well as Fayetteville. In addition, we are expanding our programs for young women this summer to two full day camps, GirlTREC in partnership with MarTREC and Soaring High in Engineering (SHE) in cooperation with Arkansas Career Education. A gift of $12,650 will help extend these existing programs by providing direct support for the implementation of a full-day summer camp for young women in Blytheville, Arkansas.

The Women's Giving Circle Soaring High in Engineering Camp (WGC-SHE) will introduce STEM concepts to 40 5th-8th grade girls through a problem-based engineering camp. During the week of camp, participants will use concepts from multiple fields of engineering and the sciences to solve real world problems that will especially appeal to young women who may not already self-identify as future engineers or scientists. This approach provides exposure to STEM concepts to underrepresented Arkansas populations, specifically targeting young women in this underrepresented community.

Is this:

- (●) an expansion of a current program
- ( ) a new program

Please list media sites (if any) utilized by your project or program to publicize the project/program, i.e., website, social media, etc?

http://engineering.uark.edu
http://engineering-camps.uark.edu
http://camps.uark.edu
https://www.engineergirl.org
https://www.facebook.com/UofAEngr/
https://twitter.com/UofA_Engr

If your project is funded, describe innovative ways how the WGC will be recognized in the success/completion of your project?

A major initiative within the College of Engineering is to create more continuity in summer programs so that students who start attending camps in elementary school continue through the camps until they arrive on campus as freshmen. Students who complete the proposed SHE program will be recognized as 'Women's Giving Circle scholars' and we will execute a longitudinal study that tracks these young women throughout the rest of their K-12 education and into the University, reporting outcomes to WGC at regular intervals.
Additionally, WGC will be listed as a "Full Annual Camp Sponsor" and receive all benefits of said sponsorship level.

- Exclusive naming of Explore Engineering Program – East Arkansas
- Logo on camp attendance certificate
- Logo on camp scholarship certificate
- Logo on College of Engineering Summer Camps marketing mediums, digital and printed
- Link to WGC's website on camp website, and included in all digital recognition

Grant Proposal

What is the specific scholarly or community needs your grant request addresses? (100 word maximum)

According to the NSF, women represent only 20% of individuals earning undergraduate degrees in engineering and minority women only represent approximately 12% of engineering undergraduates in the US. The proposed program targets young women, especially ethnic minorities, in a community where only 12% of the adult population has a college degree. The teachers we collaborate with at KIPP Schools report that students have little exposure to STEM careers in their community. Bringing the WGC-SHE program to Blytheville will introduce a wide variety of engineering applications and provide exposure to the STEM degrees offered at the UA.

How does your proposed project or program assess how these needs will be redressed? *(100 word maximum)*

The WGC-SHE program aims to introduce young women to engineering concepts through problem-based learning. We have established a partnership with KIPP Delta Collegiate High School for camps in summer 2017. They will continue to allow us to use their school, assist in recruiting camp participants, and help maintain a local connection to ensure future program sustainability. To assess immediate camp outcomes, we use an Internal Review Board approved pre- and post-survey that gauges interest, understanding, and excitement. To assess long-term outcomes, we track participating students to determine the number of students who become STEM students at the University of Arkansas.

Describe any unique and/or innovative aspects of your project or program that improves what is already known about your area of inquiry. *(100 word maximum)*

There is emerging evidence that young women are drawn to engineering when given the opportunity to participate in projects focused on improving society in some way (Paderewski et al. 2017). The proposed WGC-SHE program will maintain best practices from our current summer program models while incorporating problem-based explorations on a single subject of societal relevance that incorporates components from multiple fields of engineering aligns with the Next Generation Science Standards for the grade-levels reached.

Please list up to five (5) expected outputs and outcomes with corresponding measurements. (Please note: just listing outputs is not sufficient.)

1. Output: Facilitate camp activities that highlight multiple fields of engineering that are socially relevant and appealing to young women. Outcome: Increased level of interest, understanding and excitement with regard to STEM fields, especially engineering. Outcome measured using University of Arkansas IRB-approved pre- and post-camp surveys.
2. Output: Young women in the 5th to 8th grade are given the opportunity to explore engineering with only other women present. Outcome: Participants are more likely to feel empowered, express enthusiasm, and take risks in their thinking when working in a women-only setting. Outcome measured through reports by camp facilitators about participant attitudes and by using University of Arkansas IRB-approved pre- and post-camp surveys.
3. Output: Advanced undergraduate and graduate student women engineers facilitate camps and participants receive high quality instruction and see women in engineering as role models. Outcome: These experiences will to increase young women's interest

Document if there are other programs/projects that attempt to address the same needs as your proposal. If so, describe whether and how you will collaborate with them.*(100-word maximum)*

There are two STEM –related camps offered by Arkansas Northeastern College this summer plus our Discover and Explore Engineering camps, but there are no other projects/programs attempting to address the specific needs of young women in this community. Our local partner for the proposed program is KIPP Delta Public Schools, a network of college-preparatory charter schools. Their mission is to "empower students from underserved communities to develop the knowledge, skills, and character traits necessary to pursue a college education" and work with many organizations to provide enrichment opportunities for their students. We look forward to continued collaboration with them.

Demographic Considerations

First generation students engaged in the project: ◉ Yes ○ No

Number of current UA students engaged in the project: 3 direc

Geographic region served:

- ○ Northwest Arkansas
- ○ Southwest Arkansas
- ◉ Northeast Arkansas
- ○ Southeast Arkansas
- ○ Central Arkansas
- ○ Campus

Budgetary Considerations

Have you received WGC Funding before?

- ◉ Yes
- ○ No

Please provide the year(s) and project name(s).

2016: Explore Engineering-East Arkansas

Total proposed budget for project or program: (proposed budgets of more than $20K will not be considered; in typical years WGC proposals fall within in the $5-10K range):
$ 15,900

Should match Item 1 on Budget Request sheet.

Please list total funding commitments from external or campus sources to date:
$ 0

Should match Item 2 on Budget Request sheet.

How much, if any, of your request involves funding for the following?
Please estimate using percentages
Student Compensation: 23 %
Equipment: 0 %

Total funds requested from WGC Grant:
$ 12,650

Should match Item 3 on Budget Request sheet.

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The WGC-SHE program proposed here is a pilot for offering a weeklong full day camp in locations outside of the UA-Fayetteville campus. If we are successful in obtaining funding from Women's Giving Circle for summer 2018, this will allow us to implement the camp and determine if this model is sustainable. If so, and we expect it will be, we will reach out to local partners for continued funding in future summers as we have done in other areas where we offer camps.

In the rare case that grant resources cannot be expended, be prepared to return the remaining funds to WGC.

If selected as a recipient for a WGC grants, you will be required to submit two progress reports, including a budget summary, as well as a poster of your project for purposes of grant presentation.

Please be sure to save this document within the Grant Application Packet.