All Women's Aerospace Maintenance Competition Team Proposal

Section I — The Team

Name of college/university	South Seattle Community College
Project adviser/primary contact:	Kim Alexander
Title:	Dean of Aviation
Campus address:	6000 16th Avenue SW
City/state/zip:	Seattle, WA 98106
Daytime phone:	206-934-6660
E-mail:[1]	kim.alexander@seattlecolleges.edu

Additional project adviser who will assume leadership of the project if the primary project adviser is unable to do so.

Project co-adviser/ secondary contact:	Michelle Crowe
Title:	Program Assistant
Campus address:	6000 16th Avenue SW
City/state/zip:	Seattle, WA 98106
Daytime phone:	206-934-5858
E-mail:	michelle.crowe@seattlecolleges.du

Student leaders on the project.

	Student 1	Student 2
Name	CrystalRose Hudelson	Sarah McKenna
Gender (optional)	Female	Female
Racial/ethnic background (optional)	-	-
Year in school	1st	1st
E-mail	crystaltherose.h@gmail.com	saramckenna2012@hotmail.com

1

	Student 3	Student 4
Name	Jennifer Lesher	Melissa Wang
Gender (optional)	Female	Female
Racial/ethnic background (optional)	-	-
Year in school	1st	1st
E-mail	lesherjennifer@gmail.om	672269268@qq.com

	Student 5	
Name	Agnes Choung	
Gender (optional)	Female	
Racial/ethnic background (optional)	-	
Year in school	1st	
E-mail	achoung544@southseattle.edu	

Project Title:

Abstract:

The project shall consist of mentoring for women in the school program of aviation maintenance and composites. Mentors will consist of individuals who work in the aviation and composites industry. The mentors will coach the students on aviation skills related projects as outlined in the Aerospace Maintenance Competition handbook.

The meetings will be highly advertised on all Seattle College campuses as well as Seattle. All meetings are open to all who want to observe and ask questions in a safe environment.

Project description:

The project objectives include boosting the confidence and strengthening ties of the women in and entering the industry. The focus will be on the development of the students' skills through various projects. These projects will challenge the student and push them to seek help from the knowledgeable mentors.

The target audience here is women who would like to enter the male-dominated field of aviation maintenance and composites. Currently, the Aviation Maintenance department has approximately 1 woman per classroom. Classroom sizes average about 23 and there are about 9 classes per term. That is a total of 207 students per term with only 9 of them women. The percentage of women in the program is approximately 4%. The program should have closer to 10% at least (Dean of Aviation). With our advertised meetings, we hope to draw women from other programs into ours (see Gaining

Visibility section). For the project, we will be acquiring at least 5 women from the program. **There is a minimum of 5 student team members needed for the student competition section and we meet this requirement.**

The project activities will start out with a survey for the students. It will evaluate their assessment of their own skills and competencies as well as their perception of them. At the end of the project, another survey will be taken. The two surveys will be analyzed and compared to show the students the difference in confidence and skills.

There will be an initial meeting to explain the schedule of activities, their due dates, and have introductions. Students and mentors will meet as an entire group once a month to share information on the projects, ask questions and study. See schedules below:

Group meeting schedules:
January 9th: Preliminary meeting of mentors and students. Project schedules and descriptions handed out.
January 23rd: Monthly group training. G-IV Wheel Group Project (lead by Mary Hadley)
February 6th: Extra monthly group training. Wing and Cockpit Seal Group
February 20th: Monthly group training. Pitot Static Group Project (lead by Mary Hadley)
March 6th: Monthly group training. General questions.

Projects:

1. Aircraft Power Distribution Troubleshooting-study chapter 29 of Avionics Training: Systems, Installation, and Troubleshooting (approximately 13 pages)
2. Charles E. Taylor Exam- read Charles E. Taylor 1868 – 1956 The Wright Brothers Mechanician book (approximately 150 pages)
    a. Read "PIONEER MECHANICS IN AVIATION" BY Giacinta Bradley Koontz (approximately 148 pages)
3. Composites skill-Composite material practice kit from aircraftspruce.com.
4. External power receptacle simulator-become familiar with the simulator maintenance manual (printed by us) and practice logbook entries
5. January 23rd: G-IV Wheel and Brake Assembly removal project
6. February 6th: Cockpit and wing sealant
7. February 20th: Pitot Static study
8. Safety wiring project
9. Sheet metal project
10. Wiring and cannon plug project

Example schedule:
Week of January 6th: Take beginning survey. Troubleshooting
Week of January 13th: Charles E. Taylor Exam
Week of January 20th: Composites project
Week of January 27th: Simulator
Week of February 3rd: Safety wiring project
Week of February 10th: G-IV Wheel and Brake Assembly group project*

Week of February 17th: Pitot Static group study*
Week of February 24th: Sheet metal project
Week of March 3rd: Wiring and cannon plug project
Week of March 10th: Group meeting to discuss any remaining material/questions
Week of March 17th: Group meeting to discuss any remaining material/questions. Take ending survey.

Since there are not enough materials for each individual, the schedules will vary for each student.
*These dates are set and will not rotate with the individual student's project schedule.

Implementation plan:

Coordination of the project will be a team effort of the two school employees and two students. They will edit details and schedules together. Kim Alexander will do funds and accounting. CrystalRose Hudelson will do student project and meeting scheduling. Food acquiring and meeting setup will be lead by Sara McKenna. Michelle Crowe will do mentor project and meeting scheduling.

Gaining visibility:

Fliers will be hung throughout the campuses inviting spectators to the group meetings. They will be encouraged to ask questions at the end of the meeting about the industry.

The project will be working closely with the school's aviation club. The aviation club has agreed to publicize all activities on their already established facebook page. They also have contacts to the school's media department and facebook page, which will be utilized. Publicity outside the school will also be persued.

Project impact:

Having an all women's team and mentorship in a male-dominated field is powerful. The results of this project will be a team prepared to attend the Aerospace Maintenance Competition March 24th through the 27th 2014 in Las Vegas, NV. The other result will be a boost in confidence in the women of the program for retention.

When the all women team attends the Maintenance Competition in March, it will be a highly publicized event with the sponsor's name at the forefront. After such a publicized event throughout the school and nation, we hope to enroll more future female students into the program as well as publicly thank our sponsors.

After the funding period has expired, next year the mentorship program can go on as scheduled following the same guidelines. Every year an all women's team would like to participate in the mentorship program to go on to the competition.

Project evaluation:

A beginning survey will be taken by the students evaluating their specific skills related to the competition as well as their perception of their skills. At the end another survey will be taken and results

will be compared. Interviews will be done for each mentor team publicly.

Section IV — Budget

Travel and lodging expenses for the team of 5:

$5000

The team will proudly wear the donor's logo on shirts during the event.
All gifts are tax deductible to the extent allowable by law.
All contributions are acknowledged with a personal letter. A printed list of contributors is published annually. Donors will also receive invitations to special events and updates regarding South Seattle Community College and their gift.
Please make checks payable to "South Seattle Community College Foundation."
The South Seattle Community College Foundation does not sell, trade, or share donor information with any other organization.

Following are some links to more info on the school's Foundation branch and how to give. *Please specify the donation to the Aerospace Competition otherwise it will become property of only the Foundation.

How to give: http://www.southseattle.edu/foundation/how-to-give.aspx

Give online:
https://www.kintera.org/AutoGen/Simple/Donor.asp?ievent=245304&en=jkKZK3PIJjLSK0OQJpLTJ0NJJeL1LdPOJjKVI4OMLoI7KpJ. **

**This form does not specifically state who the funds are to go to. Please call the Foundation office to follow-up and clarify for the Aerospace Competition. Otherwise the funds would go only to the foundation.

Give through the mail:
Foundation Office
RS01
ATTN: Aerospace Competition
6000 16th Avenue SW
Seattle, WA 98106

Foundation phone: (206) 934-5809
Foundation fax: (206) 934-5393
ATTN: Foundation
Foundation email: ssccfoundation@seattlecoleges.edu

Thank you.