

# Grant Example 3 (Travel Project)

**Arkansas Space Grant Consortium**  
**University of Arkansas at Little Rock**  
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## K-12 Grant Application

Date: 3/18/2014

Project Title: RockOn! 2014 Workshop

<b>Institution:</b>	<b>Street/Box No:</b>	<b>City/State:</b>	<b>Zip:</b>
Rocket High School	1234 Blast Off Avenue	Little Rock, AR	72204
<b>Names of Persons Involved:</b>	<b>Title:</b>	<b>Department:</b>	<b>E-mail:</b>
1. Barb E. Dohl	12th Grade Science Teacher	Science	barb_e@rockethigh.edu
2. Penny Lane	12th Grade Physics Teacher	Physics	penny_lane@rockethigh.edu
<b>Telephone No:</b>	<b>Fax No:</b>	<b>Best Contact Time:</b>	
123-4567-890	987-654-3210	8:00 AM to 5:00 PM	

<b>Names of Schools Involved:</b>	<b>Address:</b>	<b>Zip:</b>	<b>Contact:</b>
1. Rocket High School	1234 Blast Off Avenue	72204	Barb E. Dohl
2.			Penny Lane
<b>Contact:</b>	<b>Contact Phone:</b>	<b>Contact Fax:</b>	<b>Contact Email:</b>
Barb E. Dohl	123-456-7890	987-654-3210	barb_e@rockethigh.edu
Penny Lane	123-456-7890	987-654-3210	penny_lane@rockethigh.edu

**Brief Summary of Project: (See Guidelines):**

The RockOn! 2014 Workshop is an opportunity to learn hands-on experience in aerospace. It is a week long workshop. The teams will learn how to build a sounding rocket payload (RocketSat). The kit will be provided and take 4 days to build. They will be launched on the 6th day of the workshop.

**Summary of Funds Requested: (Please attach a detailed budget)**

	ASGC:	Match:	Total:
1: Materials and Supplies:	\$	\$	\$ 0
2: Travel:	\$ 1700	\$ 900	\$ 2600
3: Other: Registration Fees	\$ 800	\$ 1600	\$ 2400
4: Other: _____	\$	\$	\$ 0
5: Other: _____	\$	\$	\$ 0
6: Other: _____	\$	\$	\$ 0
<b>Total:</b>	<b>\$ 2500</b>	<b>\$ 2500</b>	<b>\$ 5000</b>



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Signature

Project Title: RockOn! 2014 Workshop

**Project Description:**

During the RockOn workshop, teams will gain experience through hands-on activities. They will learn how to build a sounding rocket payload and actually build it from a kit provided to them. Teams of 3 will build their RocketSat within the first four days, and then they will launch it on sounding on the sixth day of the workshop. The information and experience using these RocketSats is very important for students to learn because the hardware could be used on future RocketSat and possible even CubeSat flights. The workshop is June 21-June 26, 2014 in the Wallops Flight Facility in Virginia. The team will build real sounding rocket payloads and actually launch it on a two stage Terrier-Orion rocket. NASA's Wallops Flight Facility will provide the rocket (a two stage Terrier-Orion) and the launch operations during the workshop. The hands-on workshop is about learning to build sounding rocket payloads, not rockets. There is also a tour that is involved, and students are briefed on sounding rocket environments for future flights. Two educators will be present during the project. Ms. Lane will be included in the team, and Ms. Dohl will be learning from observation. Following the project, the team will then give a presentation to each of the science departments explaining the different aspects that went into the build.

[http://spacegrant.colorado.edu/images/RockOn/2014/Misc/RockOn\\_Flyer2014%20B.pdf](http://spacegrant.colorado.edu/images/RockOn/2014/Misc/RockOn_Flyer2014%20B.pdf)

**Enhancements to classroom:**

The project will allow both of us (Ms. Dohl and Ms. Lane) to learn hands-on experiences (along with the students) in building rocket payloads. It will also give everyone involved firsthand experience of building and working the different aspects of hardware and software. These skills and knowledge will carry over into the classroom and will benefit the future of the students.

**Number of Students and Extent of Involvement:**

The project will consist of 2 students. It will be a team of 3, two students and one teacher. Two students who excel in the classroom will be chosen to accompany the teacher as part of their team. The students will share their experience with the entire class, as well as the science department of our school.

**New Aerospace-related materials:**

Information regarding the building of RocketSats and the instruments included during assembly. Also the information learned while touring Wallops Flight Facility will be shared to the classroom. The experience of the construction and all that goes into the process will be introduced. The workshop will also provide different contacts for the teachers, as well as pictures and videos to help demonstrate to future classes. It will give us a new avenue of teaching to help promote interest in aerospace related education.

**Arkansas Frameworks:**

Physical Science Curriculum Framework

Standard 5: Students shall demonstrate an understanding of the role of energy in physics

Standard 6: Students shall demonstrate an understanding of the role of forces in physics

Standard 7: Students shall demonstrate an understanding of wave and particle motion

Standard 9: Students shall demonstrate an understanding that science is a way of knowing

**Detailed Budget Justification:**

Travel: Hotel (6 nights @ \$150) Refuge Inn	\$ 900.00
Food (5 days x 2) \$25/day	\$ 200.00
Airfare (\$600 x 1) Delta Airlines	\$ 600.00
Registration Fees: (\$799 x 1 person)	\$ 800.00
<b>Total:</b>	<b>\$ 2500.00</b>

Match:

Travel: Airfare (\$600 x 1)	\$ 600.00
Van Rental (\$42 x 7 days)	\$ 300.00
Registration Fees: (\$800 x 2)	\$ 1600.00
<b>Total:</b>	<b>\$ 2500.00</b>