

**OSDE Robotics Grant**  
**2013-2014 Application**

The State Board of Education has approved a competitive grant that was awarded to *FIRST* for \$70,000 in order to help support public school student participation in the For Inspiration and Recognition of Science and Technology Robotics Programs (*FIRST*). The Oklahoma State Department of Education will provide grants up to \$5,000 per school to facilitate both recent start-up and existing team opportunities.

Eligible recipient: Oklahoma public K-12 schools including charter schools

Grant funds may be used for:

Grants will be awarded to the following robotics programs:

- *FIRST* Lego League (FLL)
- *FIRST* Tech Challenge (FTC)
- *FIRST* Robotics Competition (FRC) teams

Allowable Uses of Grant Awards:

Allowable uses of funds include:

- FIRST registration fees
- Equipment
- Other costs associated with direct participation in any of the *FIRST* Robotics Programs

Funds available:

The number of grants awarded will depend upon the number and type of applications received. Applicants are eligible to apply for grants in the following amounts:

Recent start-up Teams (1<sup>st</sup> and 2<sup>nd</sup> year teams)

FLL – up to \$1,000

FTC – up to \$2,000

FRC – up to \$5,000

Established Teams (3<sup>rd</sup> and 4<sup>th</sup> year teams)

FLL – up to \$500

FTC – up to \$1,000

FRC – up to \$2,500

Veteran Teams (5 years plus)

FLL- up to \$500

FTC- up to \$500

FRC – up to \$2,000

Successful applications will address:

- Increased student engagement in STEM education through *FIRST* Robotics.
- Demonstrate commitment to the development of student teams, recruitment of volunteer mentors, designing and building of remote-controlled robots.
- Participate in the Oklahoma *FIRST* Regional Competitions. Information on competitions and registration can be found in the ***Timeline of Events*** of this application.

Application Process:

- Complete a grant application form for each team
- Submit application(s) and signed assurance
- Grants will be evaluated by the OSDE and *FIRST* partnership committee members
- Grant awards will be announced by the committee

Links to follow for assistance in all three FIRST programs:

- How to start a FLL team:
  - <http://www.firstlegoleague.org/challenge/startateam>
- How to start a FTC team:
  - <http://www.usfirst.org/roboticsprograms/ftc/start-a-team>
- How to start a FRC team:
  - <http://www.usfirst.org/roboticsprograms/frc/start-an-frc-team>

Oklahoma FLL website: <http://oksef.org>

Oklahoma FRC website: <http://oklahomafirst.org/>

Oklahoma FTC website: <http://ftc.swosuengineeringtech.org/>

Due Date:

- Completed applications are ***DUE 5:00 pm Monday, September 23, 2013.***
- Applications received ***AFTER September 23, 2013*** will not be considered. ***Completed applications including original signed assurances and consent for release forms signed by each member of your FIRST team can be printed then scanned in and emailed or can be mailed to:***

Jeff Downs  
Executive Director of STEM  
Oklahoma State Department of Education  
2500 North Lincoln Boulevard, Suite 315  
Oklahoma City, OK 73105  
[Jeff.Downs@sde.ok.gov](mailto:Jeff.Downs@sde.ok.gov)

**Timeline of FIRST events**

	<b>FIRST Lego League (FLL)</b>	<b>FIRST Tech Challenge (FTC)</b>	<b>FIRST Robotics Competition (FRC)</b>
<b>Team Size</b>	Up to 10 students	Up to 10 students	Recommended minimum of 12 students.
<b>Training Opportunities</b>	Oct 12, 2013 Tulsa & Shawnee, OK	Oct 12, 2013 Tulsa & Shawnee, OK	Oct 12, 2013 Shawnee, OK
<b>National Registration Deadline</b>	May to Sept 30, 2013	May to Sept 30, 2012	December 6, 2013
<b>Competition Kick off Events</b>	Online- August 27, 2013	Online-September 7, 2013	OSU College of Engineering January 4, 2014
<b>Finished Robot Ship</b>	Not Applicable	Not Applicable	February 18, 2014
<b>Oklahoma Regional Competitions</b>	Qualifiers/Nov 9 2013 Championship Dec 7, 2013	Qualifiers/Nov thru Jan Championship Jan 25, 2014	March 27-29, 2014 at OKC- Cox Convention Center
<b>FIRST Championship (open to qualifiers)</b>	April 23 - 26, 2014 in St. Louis, MO	April 23 - 26, 2014 in St. Louis, MO	April 23 - 26, 2014 in St. Louis, MO

## CONTACTS

### For questions regarding the grant application, please contact:

Jeff Downs or Tiffany Neil  
 Executive Director of STEM  
 Director of Science Education  
 Oklahoma State Department of Education  
 2500 North Lincoln Boulevard, Suite 315  
 Oklahoma City, OK 73105  
 405-521-2107 [Jeff.Downs@sde.ok.gov](mailto:Jeff.Downs@sde.ok.gov)  
 405-522-3524 [Tiffany.Neill@sde.ok.gov](mailto:Tiffany.Neill@sde.ok.gov)

### For questions regarding *FIRST* programs, please contact:

Harold Holley  
*FIRST* Oklahoma Regional Director  
 405-747-6463  
[hholley5@suddenlink.net](mailto:hholley5@suddenlink.net)

**Assurance/Signature Page  
2013 – 2014**

**School District:** \_\_\_\_\_

**School:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**City:** \_\_\_\_\_

**Phone:** \_\_\_\_\_

**Email:** \_\_\_\_\_

**Superintendent:** \_\_\_\_\_

**Principal/Project Manager** \_\_\_\_\_

**Fiscal Manager:** \_\_\_\_\_

**Team Coach/instructor:** \_\_\_\_\_

**Assurances:**

1. Grantee shall use funds to support activities related to support of *FIRST* teams including participation in an Oklahoma regional competition.
2. Grantee agrees to carry out the project as described in the application and program description.
3. Grantee agrees to file a final report include all eligible reimbursement activities no later than **May 19, 2014**.

Superintendent Name (print) \_\_\_\_\_ Date: \_\_\_\_\_

Superintendent Signature \_\_\_\_\_

Principal/Project Manager Name (print) \_\_\_\_\_ Date: \_\_\_\_\_

Principal/Project Manager Signature \_\_\_\_\_

**Oklahoma State Department of Education**

**2013 - 2014 Oklahoma Robotics Grant Application**

Mail complete application to:

Oklahoma State Department of Education  
The Office of Instruction  
ATTN: Jeff Downs Exec. Director of STEM  
2500 North Lincoln Blvd  
Oklahoma City, OK 73105

Please check the appropriate *FIRST* programs you are applying for:

FLL Team     FTC Team     FRC Team

Number of anticipated student participants: \_\_\_\_\_

Has this program participated in FIRST programs in the past three (3) years? (yes or no): \_\_\_\_\_

If YES, please identify the program and list number of years of participation

<input type="checkbox"/> FIRST Lego League	(FLL) Number of years _____
<input type="checkbox"/> FIRST Tech Challenge	(FTC) Number of Years: _____
<input type="checkbox"/> FIRST Robotics Competition	(FRC) Number of Years: _____

**1. Program Goals and Objectives:**

- Describe how participation in *FIRST* programs will contribute to helping students meet Oklahoma Academic Standards and the current PASS Standards for Science.
  - <http://ok.gov/sde/oklahoma-c3-priority-academic-student-skills>

**2. Student Benefits:**

- *FIRST* programs are a tool to get excited about STEM education concepts.
  - Describe the expected benefits to student participants?
  - How will the expected benefits be measured and documented?

**3. Program Timeline:**

- Program timeline should include project milestones from implementation to competition participation. Timelines must include the activities that are described in the timeline of **FIRST Events** section of the overview located on the website.

#### **4. Volunteer mentors:**

- Engaging mentors from industry to support your FIRST team is a key component of the impact your students will experience from the program.
  - Describe your plan for inviting and engaging industry/business partners that will be participating in the project (i.e. design, fabrication, mechanical, and electrical concepts, computer programming, control systems, marketing, fundraising, etc.)
  - List names and affiliations for existing and future partners.
  - Will you use parents on your team? If so, describe how parents will be used?

#### **5. Facilities:**

- Identify and describe the facilities for use in designing and building the robot and indicate if the space is on the school grounds or in the community. (i.e. school machine shop, classroom, local industry shop, etc.)

#### **6. Evaluation:**

- Describe the method of evaluation you will use to determine the success of the project. Please include all evaluating tools used.

#### **7. Student Teams:**

- Describe how teams of students will be selected for this project. Please be very detailed in your response.

#### **8. Additional Financial Support:**

- Describe if monies apart from this grant will be utilized for this project. Be specific with your response.

## 2013 – 2014 *FIRST* Robotics Team Budget Summary

- Participation in any of the competitions requires a wide variety of financial resources. Please consider the following when completing the budget narrative:

### **FLL (*FIRST* Lego League)**

- Registration Fee: \$225
- Kit of Parts as needed: \$435
- Event Registration Fees per Event : \$55-\$75
- Additional Robot Materials \$200 + or –
- Tools and Supplies (field kit-\$75, table \$65, etc.): \$200 + or –
- Competition Travel Expenses : Varies

### ○ **FTC (*FIRST* Tech Challenge):**

- Registration Fee: \$275
- Kit of Parts as needed: \$665-\$900
- Event Registration fees per event : \$100-\$200
- Additional Robot Materials: \$275
- Competition Travel Expenses: Varies

### ○ **FRC (*FIRST* Robotics Competition):**

- Registration Fee: \$5000-\$6000
- Additional Robot Materials \$2000 + or -
- Tools and Supplies : \$1500 + or -
- Competition Travel Expenses : Varies

**ROBOTICS GRANT PROGRAM BUDGET SUMMARY**

**2013-2014**

County Code:
County Name:
District Code: OCAS Project Code: 363 OCAS Fund Code: 11
District Name:

Application Form was received on or before due date with complete signatures, forms, and copies.	YES – NO
Date Received:	
Application Form was received on or before due date with complete signatures, forms, and copies.	YES – NO

