**2019 Nelson Team Grant Application**

**Nelson Team Grants** seek to enable Title I and STEM-focused elementary and middle schools (grades 4-8) in the Los Angeles area (especially LAUSD) to start robotics teams to participate in the VEX IQ Challenge. Only schools that have not previously registered VEX IQ Challenge teams are eligible. Our goal is to motivate students to pursue STEM degrees and careers. We provide schools with the resources needed to inspire the next generation of scientists and engineers.

**Two-Team Award**

For 2019 and 2020, Nelson Team Grants is combining resources with the Robotics Education & Competition Foundation (REC Foundation) to start 2-4 new leagues and two teams at each of 34-58 new participating schools each year.   
2019 Nelson Team Grants will provide Two-Team Award recipients with the following equipment (total cost: $1,260 plus tax) plus the first-year team registration fees ($250) to start two VEX IQ Challenge teams:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **#** | **Items for Two-Team Award** | **Total** | **Nelson Team Grant** | **REC Foundation** |
| 2 | VEX IQ Challenge Team Registrations | $250 | $250 |  |
| 2 | VEX IQ Super Kits | $660 | $330 | $330 |
| 2 | VEX IQ Competition Add-on Kits | $200 | $100 | $100 |
| 1 | VEX IQ Foundation Add-on Kit | $80 | $80 |  |
| 1 | Extra VEX IQ Robot Battery | $20 | $20 |  |
| 1 | VEX IQ Challenge Full Field Perimeter & Tiles | $200 | $200 |  |
| 1 | VEX IQ Challenge Full Field & Game Elements Kit | $100 | $100 |  |
|  | **Participating School Total** | **$1,510** | **$1,080** | **$430** |

Schools that receive Two-Team Awards are required to register two VEX IQ Challenge teams ($250 registration fees paid by grant the first year) and to register those teams for and to attend an official event (typical fees $300) each year. Schools that receive Two-Team Awards should plan to spend $300 the first year for event registration and $750 each subsequent year for team registrations ($250), event registrations ($300), field and game element kit ($100), and additional robot parts ($100). The recommended size of each team is 3-6 students the first year and up to 12 students each subsequent year.

**One-Team Award**

Schools that cannot afford the annual expenses of the Two-Team Award can apply for a One-Team Award instead. Schools will only be considered for One-Team Awards after 34 schools have been approved for Two-Team Awards.   
2019 Nelson Team Grants will provide One-Team Award recipients with the following equipment (total cost: $830 plus tax) plus the first-year team registration fee ($150) to start one VEX IQ Challenge team:

|  |  |  |
| --- | --- | --- |
| **#** | **Items for One-Team Award** | **Nelson Team Grant** |
| 1 | VEX IQ Challenge Team Registrations | $150 |
| 1 | VEX IQ Super Kit | $330 |
| 1 | VEX IQ Competition Add-on Kit | $100 |
| 1 | VEX IQ Foundation Add-on Kit | $80 |
| 1 | Extra VEX IQ Robot Battery | $20 |
| 1 | VEX IQ Challenge Full Field Perimeter & Tiles | $200 |
| 1 | VEX IQ Challenge Full Field & Game Elements Kit | $100 |
|  | **Participating School Total** | **$980** |

Schools that receive One-Team Awards are required to register one VEX IQ Challenge team ($150 registration fee paid by grant the first year) and to register that team for and to attend an official event (typical fee $150) each year. Schools that receive One-Team Awards should plan to spend $150 the first year for event registration and $450 each subsequent year for team registration ($150), event registration ($150), field and game element kit ($100), and additional robot parts ($50). The recommended team size is 3-6 students the first year and up to 12 students each subsequent year.

**2019 Nelson Team Grant Process**

* School submits **Nelson Team Grant** application.
* LeRoy Nelson notifies school of decision.
* After May 1, LeRoy sends approved schools [instructions to register team](http://link.roboticseducation.org/vrcteams_teamresources_registrationinstructionsfornewteams)(s).
* School registers team(s) and team contacts. No payment or student names are needed.
* School forwards team registration order confirmation to LeRoy.
* LeRoy pays the team registration fee(s) for one or two first-year teams.
* A small box containing a Team Welcome Kit should arrive approximately one week later.
* One or more coaches attend **Coach Basic Training**.
  + Training provided by LeRoy Nelson and experienced coaches.
  + Covers robot building, programming, and team logistics.
  + No prior robotics or technical experience is required to be a VEX IQ coach.
  + VEX IQ Super Kits will be provided for the training.
  + Coaches bring portable computer (Windows, MacBook, iPad, or Chromebook) that team can use.
  + Coaches need to know how to use a computer browser, preferably Chrome.
  + Everything else that coaches need to know will be covered at this training.
  + Offered the week after school ends and the week before school starts.
  + Additional sessions may be scheduled if needed. Tentative next date: Saturday, September 21.
  + Attendance is optional for coaches with experience at another school or for coaches that attended similar training. Discuss with LeRoy.
  + New schools may receive some VEX IQ equipment after this training.
* Coaches that attended Coach Basic Training may attend **Coach** **Advanced Training**.
  + Training provided by REC Foundation trainers and LeRoy Nelson.
  + Coaches that attended Coach Basic Training may attend this training.
  + Coaches with experience coaching robotics teams may attend this training.
  + VEX IQ Super Kits will be provided for the training.
  + Offered just before school starts.
* In August, LeRoy orders additional VEX IQ robot equipment, full field, and game kits for schools with trained coaches and registered teams. The complete equipment order ships in 6-8 boxes that weigh a total of 70-90 pounds. Some equipment may be shipped directly to schools, and the rest will be distributed to coaches after Coach Basic Training.
* LeRoy sends school shipping confirmations, [How to Start and Organize a VEX IQ Challenge Team](http://link.roboticseducation.org/vexiqchallengeoverview_vexiqteamsandevent_howtostartandorganizeavexiqteam) (PDF), and [Frequently Asked Questions](http://larobotics.org/resources/Frequently_Asked_Questions.pdf) (PDF).
* School organizes team(s) to learn how to build and program VEX IQ robots.
* LeRoy works with Local Districts to organize and post leagues for local schools to attend.
* LeRoy sends school instructions to register team(s) for leagues and other events.
* School registers team(s) for at least one official event (league or tournament).
* School forwards event registration order confirmation(s) to LeRoy.
* Team(s) attend(s) event(s).
* Top teams qualify for State Championships, U.S. Open Championship, and/or VEX World Championships.

Note: The first three pages do not need to be scanned and submitted with your application.

**2019-2020 LAUSD VEX IQ Leagues**

Our goal is to start 2-4 new LAUSD leagues and maintain the 9 continuing LAUSD leagues. Some continuing league host sites may change.

Each new league should have 16-24 teams. Continuing leagues should have 20-36 teams. Each league needs at least 16 teams to qualify top teams for State Championships.

All new schools are expected to send one or more coaches to attend **Coach Basic Training**.

Coaches that attended Coach Basic Training may attend the **Coach Advanced Training**.

All new schools are expected to send one or more coaches to attend a Coach Orientation Session.

Leagues will meet after school at least four times between October and January:

* September: League Orientations for coaches of new leagues and leagues new league hosts.
* October: Qualifying Session 1 for new leagues: Practice Teamwork Matches and Qualification Teamwork Matches
* October: Qualifying Session 1 for returning leagues: Qualification Teamwork Matches
* November and December: Qualifying Sessions 2-3: Qualification Teamwork Matches
* January: Championship Session: Skills Matches and Judging followed by Finals Matches and Awards
* All league sessions start at 4:00 PM.
* Coach Orientations end at 6:00 PM.
* Qualifying Sessions end at 7:00 PM.
* Championship Sessions end at 7:45 PM.

**Nelson Team Grants by Year**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Year | 2015 | 2016 | 2017 | 2018 | 2015-2018 | 2019 Goals |
| New Recipient Schools | 19 | 16 | 68 | 132 | 235 | 34-58 |
| New Leagues | 1 | 1 | 3 | 6 | 9\* | 2-4 |

\* Four small leagues in 2017 merged into two large leagues in 2018 at Mulholland MS and Elizabeth Learning Center.

Note: The first three pages do not need to be scanned and submitted with your application.

**Nelson Team Grant Agreement**

If my school receives a Nelson Team Grant, I understand that my school will have use of the provided robotics equipment for as long as my team fulfills the conditions listed below. A new VEX IQ Challenge season starts after the VEX Robotics World Championships at the end of April each year.

* The coaches/mentors and administration at my school support creating a sustainable VEX IQ Challenge program.
* The robotics equipment will be stored in a safe, clean location.
* The robotics equipment will be used for official VEX IQ Challenge events or activities each season.
* My team will complete and pay team registration each season (paid by the grant the first year).
* My team will complete and pay event registration and will attend at least one official event each season.
* My team will participate in post-season surveys to assure that the above conditions have been fulfilled.

In the future, if my team no longer fulfills the conditions listed above, I will return the robotics equipment so that it can be made available to another school.

**Nelson Team Grant Application**

My school is applying for: **Two-Team Award** (Recommended) **One-Team Award**

At least one coach needs to attend a full-day **Coach Basic Training** session prior to receiving robotics equipment:

1. Coach name:

2. Coach name:

E-mail:

E-mail:

Which League(s) would your school prefer to attend? Indicate up to three choices (1, 2, 3) in the **Prefer** column:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Prefer** | **#** | **New Teams** | **Local District** | **Level** | **League Hosts** (New Leagues are **Bold**)(Some league hosts may change) |
|  | 1 | 7 | Central | ES&MS | Estrella Elementary School (replaced Garvanza) |
|  | 3 | 16 | Central | ES | Barack Obama Global Preparation Academy |
|  | 4 | 0 | East | ES&MS | Maywood Center for Enriched Studies (replaced Elizabeth) |
|  | 5 | 14 | East | ES&MS | Boyle Heights STEM Magnet HS (replaced Belvedere) |
|  | 6 | 24 | Northeast | ES&MS | **Chavez Learning Academies: Academy of Scientific Exploration** |
|  | 8 | -4 | Northwest | ES | Mulholland Middle School |
|  | 9 | 1 | Northwest | MS | Mulholland Middle School |
|  | 10 | 4 | South | ES&MS | Samuel Gompers Middle School |
|  | 11 | 24 | South | ES&MS | **Steven M White Middle School** |
|  | 12 | 8 | West | ES&MS | Augustus Hawkins High School |
|  | 13 | 0 | West | ES&MS | Mark Twain Middle School |

Note: This application should be signed by a school administrator, preferably by the Principal.

Signature:

Printed Name:

Title: Date:

School:

E-mail:

Phone: Local District:

Please scan and email this completed page to [LeRoy@LARobotics.org](mailto:LeRoy@LARobotics.org) by **Friday, August 30, 2019**.

For additional information, please see <http://larobotics.org/resources/Frequently_Asked_Questions.pdf> or contact:

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