

## Pre-Application Information

### Introduction

Our kids need to be critical thinkers and innovators to meet the social, environmental and economic challenges of the future. To learn these skills, they need the right equipment and resources at school. The Genesis School-gen Trust aims to support schools by providing this equipment to grow their understanding and interest in STEM (science, technology, engineering and maths).

The Genesis School-gen Trust provides:

- equipment (software / hardware) that supports the teaching of the Ministry of Education's Curriculum and encourages students to become engaged in science, technology, engineering and maths subjects.
- solar panels and monitoring equipment to schools to enable students to learn about renewable energy and energy efficiency by seeing in real time how much solar energy is produced via the panels.

The Genesis School-gen Trust welcomes applications from any New Zealand primary, intermediate or secondary school. Before completing the on-line application form, please review this pre-application information carefully.

If you have any questions please refer to the [FAQ section](#) of the Genesis School-gen Trust website or alternatively email the Trust Administrator on [info@genesisschoolgentrust.org.nz](mailto:info@genesisschoolgentrust.org.nz).

### Application round dates and review process...

Application Round 2 – 2019 opens on Monday, 1 July and all applications must be received by 5pm on Friday 27 September.

On receiving an application, the Trust administrator will send an email confirmation to the person submitting the application. If there is any missing / incomplete information, the Trust administrator will contact the school.

Once the application round closes, all applications will be reviewed, and the Trustees will make their decisions as to the allocation of the available funding.

All applicants will be notified of the results either by phone or email after 6 November 2019.

### When completing the application form remember ...

- 1) The questions in the application form are designed to provide information on how your school is encouraging students to engage in science, technology, engineering and maths, what the issues / challenges are and what you are doing to overcome these.

- 2) The Trustees want to understand how you plan to use the equipment to support students develop computational thinking skills and, in relation to digital technology, develop the capacity to design quality, fit-for-purpose digital solutions.
- 3) Please note that schools opting for the solar package must also provide full responses to questions relating to STEM learning as the primary purpose of the solar package is around engaging students in the learning that can be achieved through it.
- 4) Responses to each of the questions is **restricted to 250 words**. This must be strictly adhered to and any words over this will be disregarded.
- 5) All applications will be assessed on (but not limited to) the following criteria: -
  - a. **Need** - the challenges you are facing in teaching STEM
  - b. **Desire / passion** – to engage your students in STEM learning
  - c. **Potential** - for growing STEM learning based on how you have outlined your thinking around moving forward in this area.

## What can you apply for?

**Note:** All equipment will be purchased by the Trust and supplied directly to the school. Note the Trust does not offer cash funding.

### Category 1 - Devices

Device equipment pack options include:

- iPads (x9) plus cases and heavy-duty trolley case
- Or
- Laptops (x9) plus heavy-duty trolley case
- Or
- Chromebook (x13) plus heavy-duty trolley case

### Category 2 - Device / STEM bundle

Device / STEM bundle pack options include:

- iPads (x5) Sphero BOLT (x5) OSMO Education STEM Classroom Kit Genius Edition (x1) plus heavy duty trolley case and charging station
- Or
- Laptops (x5) Sphero BOLT (x5) LittleBits Rule Your Room Kit (x8) plus heavy-duty trolley case
- Or
- Chromebook (x8) LittleBits Rule Your Room Kit (x8) plus heavy-duty trolley case

### Category 3 - STEM

STEM pack options include:

- School starter pack – Makey Makey STEM Pack Classroom Invention Literacy Kit (x1) Meet Edison Education School STEM Bundle Pack (x1) Sphero BOLT (x4) Makeblock 90053 mBot educational robot kit (x4) Makeblock 90092 Ranger – Transformable STEM educational robot kit Bluetooth including online course (x2) Makeblock STEM Education Neuron Inventor Kit (x4)
- Or
- Sphero / EDU drone bundle - Sphero BOLT Education pack (1) DJI Tello Toy Drone (x5) Heavy-duty trolley case (x2) DJI Tello Battery for Tello Drone (x5) DJI Tello GameSir T1d controller (x5)
- Or
- Serious competitor - VEX IQ Kit (x4)

#### **Category 4 - Science**

Science pack options include:

- Lab equipment – lab essentials including microscopes / slides / safety glasses / chemistry experiment equipment

Or

- Biology – including Biological kits / Light & Solar Energy kits / Lab equipment

Or

- Earth Science – including Earth & Space Kits / Light & Solar Energy kits / Geology kit

Or

- Chemistry – including Chemistry Kits / Light & Solar Energy kits / Lab equipment

Or

- Physics – including Physics kits / Light & Solar Energy kits / Lego simple & powered machine kits

#### **Category 5 - Solar / monitoring bundle**

The solar pack consists of a solar array, monitoring equipment, installation and connection into the School-gen solar programme so that students can see real-time how much electricity is being generated on the School-gen website. There is a large array of resources teachers can use as a School-gen solar school, many using the data collected from the school's solar array.

The Trust is offering a solar package up to the value of \$20k, however the size of the array used will depend on building restrictions.