



**SCIENCE FOR
DEVELOPMENT
AWARD**

Science for Development 2022 winners - Jona Garcia, Claudine Mulihamo and Iman Shittu. The students from St. Louis Secondary School won for their project 'A renewable and electricity-free cooling system for food refrigeration that can combat world hunger'

STUDENT SCIENTISTS ADDRESS GLOBAL DEVELOPMENT

The Science for Development Award is a Special Award presented annually at the BT Young Scientist & Technology Exhibition to a research project that addresses sustainable development challenges faced by communities in the Global South.

- Amongst the challenges are:
- Famine and food insecurity
 - Deforestation
 - Clean water and sanitation
 - Soil fertility and erosion
 - Unreliable access to electricity
 - Maternal and child healthcare
 - Endemic diseases
 - Access to markets and fair prices
 - Access to credit
 - Utilisation of new technologies



**Self Help
Africa**



Irish Aid

An Roinn Gnóthaí Eachtracha
Department of Foreign Affairs

SCIENCE FOR DEVELOPMENT AWARD



Leah Shaw from Our Lady's Bower presenting 'Citrus Peels – The answer to global drought' to Orla McBreen and Áine Doody from the Department of Foreign Affairs at the RDS in 2020

The **Science for Development Award** is organised by Self Help Africa's Development Education team, and the winning project receives a travel bursary sponsored by Irish Aid. This bursary funds one student and their teacher to travel with Self Help Africa to one of their programme countries on a study visit where they have the opportunity to carry out field research on their project, interact with African student counterparts, and to meet local communities who they could exchange ideas with regarding their project findings.

Research topics could include but are not limited to:

- **Food and livelihood security**
- **Climate change and the environment**
- **Gender equality**
- **Appropriate and sustainable technologies**
- **Access to education**
- **Health issues**

Previous winning projects have included the creation of an ethical sanitary towel and educational campaign, using eggshells as a filtration system to remove heavy metal pollutants from water, reducing the evaporation of water using sodium polyacrylate, solar-powered devices, and fuel-efficient cooking stoves.



Science for Development past winner Timothy McGrath from Killorglin Community College with Minister Helen McEntee at the BT Young Scientist in 2018, who won for his project 'An Investigation into using CRISPR-Cas9 to genomically edit Paramecium Caudatum to purify Vibrio Cholera infected water in 3rd world countries'

AWARD CRITERIA

The winning project of the Science for Development award should:

1. Show a clear understanding of the causes of poverty, injustice and inequality in a Global South context and a willingness to learn more.
2. Use appropriate and sustainable technology, solutions and/or materials that can be adopted and implemented at local community level in the Global South.
3. Demonstrate a clear understanding of the local context, target audience and needs, which the project is designed for.
4. Demonstrate an understanding of the connections between the local (Ireland) and the global level in relation to the chosen development issue and project, as well as an understanding of a partnership approach to development.

*COULD YOUR
PROJECT BE
ELIGIBLE?*

PROJECT SHOWCASE

Each year after the BTYSTE, Self Help Africa invite a selection of shortlisted projects to present their research at an event in Iveagh House. This offers students the opportunity to demonstrate and discuss their projects with science educators, technical experts, development practitioners and other students.

*THE SHOWCASE
CELEBRATES PROJECTS
THAT TACKLE SUSTAINABLE
DEVELOPMENT CHALLENGES
FACED BY COMMUNITIES
AROUND THE GLOBE*



Sara O'Beirne from Mohill Community College presenting her project 'Can wind turbine blades be made eco-friendly and more cost effective?' at the showcase in Iveagh House in 2022

GET IN TOUCH

Our Development Education team offer workshops to schools interested in entering projects regarding Science for Development at future BTYSTEs. These workshops highlight issues for further investigation and demonstrate idea generating techniques. Contact schools@selfhelpafrica.org to book one of our facilitators.

Science teachers can also share our webinar series with students interested in applying scientific processes to environmental and social issues - the online events took place in 2021 and 2022 and recordings are available to view on YouTube. The series not only endeavours to inspire students to develop project ideas, it also hopes to highlight pathways to possible careers in science.



Science for Development 2017 winners Jack O'Connor and Diarmuid Curtin from Desmond College demonstrating their ergonomic planter with farmers in Malawi

Read about more past winners on our website ►



For enquiries, contact Dorothy Jacob on dorothy.jacob@selfhelpafrica.org or 086 865 4170

For more on Self Help Africa's Development Education programme, visit selfhelpafrica.org/ie/education/

