



BT YOUNG SCIENTIST  
& TECHNOLOGY Exhibition



# 2022

## ENTRY DETAILS



[www.btyoungscientist.com](http://www.btyoungscientist.com)



BT YOUNG SCIENTIST  
& TECHNOLOGY Exhibition



# Do you want to get involved in something that you will remember for the rest of your life?

Founded in 1963 by two brilliant physics researchers from University College Dublin, Rev. Dr. Tom Burke and Dr. Tony Scott, the BT Young Scientist & Technology Exhibition is a Science, Technology, Engineering and Maths (STEM) competition that is an unforgettable experience for all the students who take part.

For 22 years, the BT Young Scientist & Technology Exhibition has been organised by BT, one of world's leading communications companies.

The virtual exhibition, takes place from **12th to 14th January 2022**, has 550 project places and is open for brilliant ideas from all second level students from Ireland, both north and south.

As well as the inspirational student projects there will be an amazing virtual world with exciting and innovative science and technology-based exhibits and entertainment, making it a thrilling event for those who enter and for all visitors.



**Check out the highlights  
of BTYSTE 2021**

[https://youtu.be/ErgxrtMK\\_Y0](https://youtu.be/ErgxrtMK_Y0)

[www.btyoungscientist.com](http://www.btyoungscientist.com)



“The projects were **excellent**.  
The way they were laid out on  
the website was excellent.  
**Ease of access.** Videos were  
excellent by the kids.”

“The BTYSTE gave me focus  
and a fun project to work on  
when everything else had to  
be closed or shutdown”

Our first virtual exhibition in 2021 was a great success, BTYSTE became truly global with visitors from **77 countries**. They were awed by the quality and ingenuity of the projects that took part.



## Did you know?

# 2,533

students from **261 schools** across the island of Ireland competed for the coveted title ‘BT Young Scientist & Technologist of the Year 2021.’

# 2022

will see the exhibition celebrate its **58th year**, making it one of the longest standing exhibitions of its kind in the world, and BT’s **22nd** year as sponsor and organiser.

# 15

To date, Irish students have taken the top honours **15 times** at the **European Union Contest for Young Scientists (EUCYS)** and have scooped **over 20** top awards in the **Science and Engineering Fair** in the USA.



**BTYSTE 2022**



## 2022 – What to Expect

The magic of the 2022 BT Young Scientist & Technology Exhibition will take place VIRTUALLY



As **BTYTE2022** will once again be virtual **ALL FEES HAVE BEEN WAIVED**. Our amazing prize fund will still be over €30,000 and there will be over 200 awards for qualifying projects.

2022 will see the return of our BTYSTE online portal. Bursting at the seams you can explore the brilliant students project videos, amazing STEM shows, unbelievable content from our partners and sponsors stands. Our Educator Hub will be packed full of STEM content and activities for teachers to learn about and bring back into the classroom.

“The experience gained from coming up with an idea, testing it, researching material, writing it up and presenting gives the students skills that they wouldn’t necessarily get in the classroom. The confidence it give students is brilliant. Even though this year’s event was online, they students still got the experience.”



# How to get involved

<http://btyoungscientist.com/how-to-get-involved/>

The competition is open to second-level students from Ireland, north and south, who are aged between 12 and 19 years on 31st October 2021.

	JUNIOR	INTERMEDIATE	SENIOR
ROI	1st & 2nd year	3rd & 4th year	5th & 6th year
NI	Year 8, 9 & 10	Year 11 & 12	Year 13 & 14

\*A group is defined as comprising of no more than three people from the same school and the same age grouping. If a group is made up of students in different years, these students should be entered into the oldest member's group i.e. If a student in 4th year/Year 12 partners up with a student in 5th year/Year 13 this group should be entered into the Senior category.

Aged between  
**12-19**  
on 31st Oct. 2021



INDIVIDUAL



GROUP\*

## The category choice

Students can enter projects in one of four categories.

(check the website for full definitions as an incorrect choice may result in a project not being accepted):



### Technology

e.g. communications, electronic systems, robotics, computing, control technology, applications of technology, biotechnology, automation.



### Biological & Ecological Sciences

e.g. agriculture, anatomy, biochemistry, biotechnology, ecology, horticulture, physiology, medical science, veterinary science.



### Social & Behavioural Sciences

e.g. economic, geographical, psychological or sociological studies of human behaviour, nutrition, social anthropology, political science.



### Chemical, Physical & Mathematical Sciences

e.g. chemistry, physics, mathematics, applied mathematics, geology, engineering, computer programming, meteorology, astronomy.



**BTYSTE 2022**

# Getting started

If you're wondering why you should get involved, here are just some of the benefits:



**Getting the chance to represent your school/town at BTYSTE is a real privilege and an experience you will never forget.**

Plus, if you're lucky enough to win, you'll go on to represent the competition at the European Union Contest for Young Scientists.



**Although a love for science and technology lies at the heart of all the entries, we're sure everyone also has an eye on the prizes!**

There are over 200 prizes to be won, including the prestigious BT Young Scientist & Technologist of the Year Award which comes with a cash prize of €7,500 / £6,750.



**It's a brilliant extra-curricular activity to put on your CV or university application.**

It shows a real passion for science, maths, an ability to think for yourself along with time management and communication skills.



**The rewards aren't just confined to entrants. Teachers will also see real, long-term benefits by getting involved.**

It's a great way to get pupils fired up about the vital subjects of science and technology and a brilliant way to showcase your school's scientific pedigree. It also helps to inject a fun element into traditionally 'serious' subjects like science and maths.



**Did you know, by participating you could receive a Gaisce, Presidents Award or a Duke of Edinburgh Award**

more details on our website.

# Where to get your idea

Ideas come from all around us and the best ones are often the simplest. Is there something that really annoys you about everyday life? Have you spotted a problem that needs a solution or could you do a project related to one of your hobbies?



## Initial research

Visit your local library or use the internet to learn everything you can about your chosen subject.



## Organise

Organise everything you have learned about your topic. At this point you should narrow your hypothesis by focusing on a particular idea.



## Make a timetable

Choose a topic that not only interests you, but that can also be done in the amount of time you have. And remember to leave time to write your report and put together an exhibit.

## Prepare a one page proposal

When you have decided on a project, carried out some research and trial experiments, it is time to write your one page proposal. This helps you to organise your thoughts and also to prepare the proposal for your project. **The proposal should be no more than 500 words.**

### How to Enter

Entries must be submitted online, in either English or Irish, by **27th of September 2021** at **[www.btyoungscientist.com](http://www.btyoungscientist.com)**

**Your application must include:**

- ☒ **Entry Form for Projects**
- ☒ **Project Details Form**
- ☒ **Teacher Assessment Form**
- ☒ **One Page Proposal outlining your project**

### What happens next?

#### The selection process

Your One Page Proposal is considered by a panel of screening judges who carefully review every project. You will be told whether your project has qualified or not qualified in late October 2021.

**QUALIFIED**

**QUERIED**

**NOT QUALIFIED**



**BTYSTE 2022**





## What Students will need to upload

Your Project has Four essential elements. Your report book, your project diary, a 6 slide PowerPoint presentation and a 3-minute video of your project for the public.



Report book



Project diary



Presentation



Video

These will all need to be uploaded in advance and exact dates will be sent to qualified projects.

**Judging will commence the week of the 12th – 14th of January.**

All our Projects will be judged a minimum of 3 times and all Judging will be video Interviews via MS Teams.

“I think it’s a great event for students to develop their confidence and meet other people. They all obviously have a love of science and giving them the chance to talk passionately about something they love is so important to them”

# Tips from the judges

The following advice and tips from our panel of judges might make your job a little easier when writing your project.

- 1** Start to work on your project as soon as you can. Some projects take a lot longer to complete than you thought when you started.
- 2** For you to succeed, you have to be interested and involved from the word 'go'.
- 3** Don't leave things to chance or guesswork. Research your project well. That way you'll be able to deal comfortably with any queries that come your way, whether from the judges or members of the public.
- 4** Keep a detailed Project Diary of your work. We all forget things and this may help you answer judging queries at a later date.
- 5** Accurate use of scientific methods counts for a lot when judging begins, so take your time and make sure that all your facts and figures are correct. Don't be afraid to ask your teacher if you are unsure about something.
- 6** The project title should accurately reflect the aims of the project.
- 7** Be original. Make your project stand out from the crowd by giving good solid reasons for your choice of subject.



## Need some help with your project?

Check out our website for more information  
[www.btyoungscientist.com](http://www.btyoungscientist.com)





THE BT YOUNG SCIENTIST  
BUSINESS BOOTCAMP

## BT's 13th Business Bootcamp Programme for students

**A number of the exhibiting intermediate and senior students from the 2022 BT Young Scientist & Technology Exhibition will be invited to take part in a BT Young Scientist Business Bootcamp in February/March next year where they will experience the world of technology commercialisation and entrepreneurship.**

We have created this programme to encourage further innovation by our young scientists and provide them with commercialisation skills to carry forward into their careers and lives. The bootcamp will be held at University College Dublin (UCD).

### Expanding Business Leadership

As an extension of the BT Young Scientist & Technology Exhibition, the BT Young Scientist Business Bootcamp has enabled BT to take a national leadership role in economic development. BT is collaborating with key private and public sector organisations to create an opportunity to mentor the next generation of Irish innovators and entrepreneurs.

### Igniting Entrepreneurial Spirit

We at BT believe that the BT Young Scientist Business Bootcamp helps to bridge the gap between the worlds of education and business and mentor the next generation of young innovators and entrepreneurs.



in association  
with UCD Innovate

The Bootcamp experience has been life changing. I feel it has really opened up doors for me in regards to career options, developing my project and communicating better with people. I have met and heard from some amazing and inspiring people and I feel I have become more creative and innovative in the way I think.







## **Closing date for students**

5pm 27th September 2021

## **BTYTE 2022**

12th – 14th January 2022



**1800 924 362 (ROI)**  
**0800 917 1297 (NI)**



**BTYTE@btyoungscientist.com**

BT, Grand Canal Plaza, Upper Grand Canal Street,  
Dublin 4, Ireland.

BT, Riverside Tower, 5 Lanyon Place,  
Belfast BT1 3BT, Northern Ireland.

In January 2022, BT will celebrate 22 years as proud organiser and sponsor of the BT Young Scientist & Technology Exhibition. The essence of the exhibition is the spirit and ingenuity demonstrated by the students who participate. As a leader in innovation and technology, BT is delighted to cultivate and nurture the talent of our future scientists and engineers both through the exhibition itself and through the BT Young Scientist Business Bootcamp about which you will read more later. We also are delighted that over 200 of our own people volunteer to visit schools to talk about the exhibition or work at the event itself in the RDS each January.