



TECHFEST 2022-23 WITBLOX YOUNG INVENTOR

ABOUT THE COMPETITION

WitBlox Young Inventor Techfest 2022 competition is aimed to harness the creative ability among the young minds of this generation. The goal of the competition is to urge them to come up with innovative solutions to real-world problems. It will encourage participants not only to conceive an idea to solve a given problem but also to execute it innovatively by making a prototype. To participate in this competition, the WitBlox Young Inventors must choose a theme from the following:

- 1. AI for Good**
- 2. Future of Transport**
- 3. Smart Living**
- 4. Climate Change Solutions**

Participants have to identify a problem based on the chosen theme, propose their idea, and build a working model on their selected idea.

HOW TO PARTICIPATE

Following are the steps for registration

1. Register on the Techfest Website

The Participants have to register on the official Techfest Website and fill all the necessary details: www.techfest.org -> Competitions-> WitBlox Young Inventor -> Explore More -> Register -> Fill all your details -> Now you must create/Join a team.

2. Download WitBlox App from the Google Play Store

Available for all Android devices. First, you need to fill in your details to register the WitBlox App.

App Link - <https://play.google.com/store/apps/details?id=com.witbloxapp.witblox>



3. Preview the Themes of the Competition

Click on the Techfest icon at the home screen. You will find information on the 3 different themes of the competition. Choose any one theme and find more about it. Does this theme ring a bell for an idea? If not, explore the next theme.

4. Create your Inventor's Profile on WitBlox App

Once you are sure with the theme, click on select the theme button. It will ask to create your inventors' profile. You can also create your team's profile too. A participating team can have a max of 4 participants. Add your photo in your profile and you are all set!

5. Submit your Idea

On clicking Next, you can type your idea in the space provided. Express your idea in less than 250 words. Press the Submit button to send your idea to us for review.

6. Confirmation of your idea by our Jury

Your Idea gets approved the same or next day by our jury. So please look out for a notification on the WitBlox App. The notification will have your unique participant number. We may ask you to rework the idea if it does not qualify the competition criteria.

7. Build a Working Model of your idea and submit its video on the WitBlox App

Once your idea is approved, you can start building a prototype for it. Build it step by step to the best of your skill and understanding. When you think it is complete, it's time to submit it for finalist selection. Shoot the video of the working model by a video camera or smartphone. The length of the film must be less than 3 minutes.

You can also add your voice in the video to explain it. Upload the video in the App.

8. Your Idea gets selected among the Top 10 Young Inventions

You will receive a notification stating your rank among the submitted entries a week before the final online round. The top 10 entries will be invited to showcase their inventions offline before the Techfest jury.

9. Present your model to Techfest Jury in person at Techfest, IIT Bombay

Top 10 selected ideas must be present in person at IIT Bombay, Techfest from 16th-18th December to showcase their idea and present their model to Techfest Jury.

10. Bag the WitBlox Inventor of the year 2022 and & Win a Grand Prize

The best idea will be adjudged WitBlox Young Inventor Techfest 2022 based on the combined score of the Judges.



ELIGIBILITY

Anyone studying in classes 5th to 12th (both included), in a school situated in India, can participate in this competition. Participants can register as an individual or as a part of a team. Participating teams can have a maximum of 4 members.

To participate in the competition, one must have to download and register oneself in the **WitBlox App** available at Play Store, using an Android Smartphone or tablet.

There is **NO** entry fee for participating in the competition.

TIMELINE

Idea submission deadline	November 28
Approval of (written) idea	Within 24 hours of submission
Video submissions close	November 30
Announcement of finalists	2nd December
Final Presentation to the Jury	16th-18th December
Final Result Announcement	16th-18th December

GENERAL RULES

When registering for an account, it is necessary to accept WitBlox Young Inventor Competitions' Terms & Conditions, which apply for all registered participants these includes:

- All users must provide a submission that the user has created themselves. All users must provide personal information that is truthful and accurate. WitBlox and/or Techfest reserves the right to exclude users at their sole discretion.



- The video you submit as part of the competition will be uploaded on the “Submissions” section of the app and will be visible to you and you only throughout the duration of the competition. The videos of the winners will be uploaded after the announcement.

By submitting a video, you have given your consent to the publishing of your video for promotional purposes.

- If you choose to use music in your video, you must ensure that you have legal permission to do so and it is not under copyright. WitBlox or Techfest will not be responsible for any copyright infringement.
- The decision taken by Witblox and the Techfest team in respect of all matters to do with the competition will be final and no correspondence will be entered into.
- The competition and these terms and conditions will be governed by laws of India and any disputes will be subject to the exclusive jurisdiction of the courts of Mumbai.

COMPETITION THEMES

1. AI for Good

Welcome to Witblox Young Innovator Techfest 2022 organized by IITB, a competition to harness the creativity among young minds of this generation. All you need to do is come up with innovative solutions to real-world issues.

AI or artificial intelligence is the Future. We are surrounded by AI more than ever before. We have AI assistants, like Alexa, Google Assistant and Siri to help us. We have AI Doctors to monitor our health and advise us on exercises or habits. We have self Driving Cars making travel decisions for us. AI has huge potential in our day-to-day life and it can augment human potential.

Can you create AI-based innovations to help humanity?

Can you develop models and ideas using artificial intelligence that are helpful to human lives?

2. Future of Transport

Transportation is vital to support economic growth, create jobs and connect the population to essential services like healthcare and education. Still today, about 15% of the global population

lacks access to an all-weather road nearby, which affects their livelihood. Road accident injuries affect more than 50 million people annually. The climate change aspect of transport also needs to be urgently addressed as it adds more than 20% of Greenhouse gas emissions globally.

The problem is more severe in developing countries, as they have to ensure access to safe, efficient and affordable mobility for all while keeping the climate footprint of those modes small.

Can you reimagine the future of transportation to ease the current challenges? Your idea must be efficient, environment-friendly and designed for user/passenger comfort.

3. Smart Living

With the rapid advancement in technology, smart homes are moving quickly from a luxurious want to an essential need. Such homes are very much preferred nowadays due to the:

- Efficiency in Conserving Energy
- Security & Remote Monitoring
- Convenience & Comfort
- Customizable to our tastes

The smart home global market is projected to grow annually by 10.4% to \$139 Billion by 2026. It's the need of the hour to build smart homes & technology to use energy efficiently and reduce greenhouse emissions.

Can you redesign smarter living for a sustainable future?

The challenge in this category is to design either a technology which can be a part of a smart living environment or an environment itself with multiple technologies. The idea must have feasibility in terms of scalability, cost of production, and overall energy consumption.

4. Climate Change Solutions

Climate change is having profound effects on India, which is ranked fourth among the list of countries most affected by climate change in the period from 1996 to 2015., India emits about 3 gigatonnes (Gt) CO₂eq of greenhouse gasses each year; about two and a half tons per person, which is half the world average.



The country emits 7% of global emissions. The rise in temperature on the Tibetan Plateau is causing Himalayan glaciers to retreat, threatening the flow rate of the Ganges, Brahmaputra, Yamuna and other major rivers. Heat waves' frequency and power are increasing in India because of climate change. Severe landslides and floods are projected to become increasingly common in such states as Assam. And it's happening globally too. With each passing year, extreme climate events have increased rapidly causing an unprecedented rise in the damage caused.

Therefore it's the need of the hour to solve this global problem.

Can you create a compelling solution to mitigate the effects of our activities on climate change?

We are looking for ideas on how to boost sustainability in travel and mobility with technology and digitization. Students from around the globe are welcome to submit their ideas and build projects on them.

So what are you waiting for?

All you have to do is identify a problem and submit an Idea to solve that problem on the WitBlox App. If your idea gets selected, you have to build a working model based on the solution and upload its video on the WitBlox App. Best Projects will be selected for a Final Pitch at IIT Bombay where the 3 Best ideas will be announced as Young Inventors of the Year 2022 and will win grand prizes.

STRUCTURE

ROUND 1: IDEA SUBMISSION

Every participant has to submit an idea which he/she plans to use for making a working model. The idea must be covered in any one of the four selected themes of the competition. You must express your idea in less than 250 words. The idea must be approved by the Techfest jury to get shortlisted for the 2nd round. The Jury can also advise you to re-work on the idea before re-submission.

ROUND 2: VIDEO SUBMISSION

The participants must make a working model/ prototype of their idea. Build it step by step to the best of your skill and understanding. Shoot a video of it with a video camera or smartphone. The length of the film must be less than 3 minutes. You can also add your



voice in the video to explain it. Upload this video on the App. A maximum of 20 videos will be shortlisted for Round 3, based on the video of their models.

The shortlisting will be done based on the points it scored under the following categories:

- a) Originality (novelty) of idea
- b) Application of technology concepts
- c) Efficacy of the solution
- d) Scalability
- e) Environment-friendly

Each model will be scored from 0-5 under all of 5 criteria. Based on the combined scores, the ranking of each participant will be arrived at. In a case on the equal score, the weightage will go from the order of "a" to "e", where "a" being the highest.

ROUND 3: FINAL PRESENTATION

All 20 finalists will be invited to demonstrate their model in front of the Techfest Jury online. All participants will be given 10 minutes each to demonstrate the idea and showcase the working model of the robot. The jury may ask some questions to the participants. Each jury will provide individual scores to all participants based on:

- a) **Working model** - 5 categories as described above
- b) **Presentation and Q&A**- The judges will ask some questions related to the model. The final winner will be decided based on the combined scores of all jury members. The order of priority to the judging criteria will be identical to that of Round 2.

CERTIFICATE POLICY

The best idea will be announced as **Young Inventor of the Year 2022** and win a grand prize. The participants selected for round 3 will be given a **certificate of excellence**. All qualifying participants will get a participation certificate.



PRIZES

The prize money will be awarded to top 3 winners via NEFT and will be processed within 30 working days after receiving the prize money from sponsors. Winners have to mail the following information (immediately after the announcement of results) to abhishek@techfest.org

Subject: Young Inventor, Team ID, Position
(example- Young Inventor, YI211003, 2nd Position)

Body of the mail must contain:

- 1. Account Holder's Name**
- 2. Account Number**
- 3. Bank name and Branch name.**
- 4. IFSC Code**
- 5. Photograph of Bank Passbook as a proof**