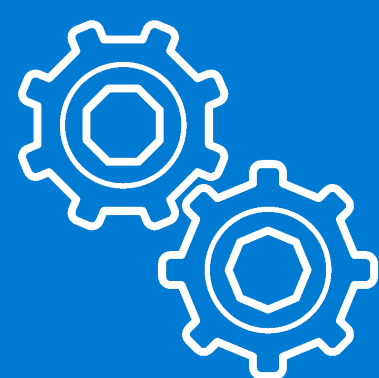


DAY 5

IDEATION BOUT

Now we know about the basics of Synthetic biology and some applications of it. So, now we will dive into the ideation process behind any project.



HOW TO BUILD A SYN BIO PROJECT

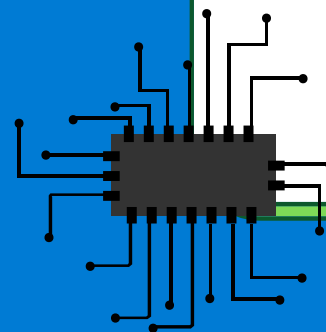
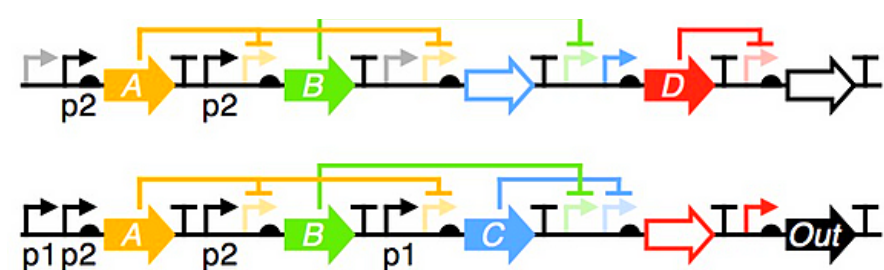
Choose a real-world problem you would like to solve. Brainstorm!



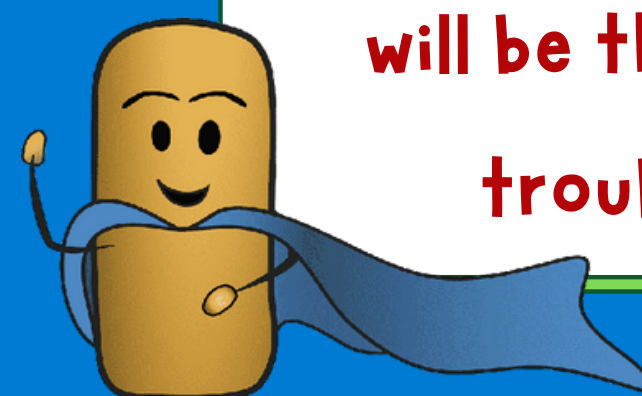
Find out which exact part of the problem you would like to target for troubleshooting.



How will your genetic circuit look like?



Which protein will you choose to solve your problem? What will be the mechanism of troubleshooting?



In which organism would you like to insert your gene of interest? What is your chassis organism?



Think about any side effects that might happen due to this GMO. How will you solve these?

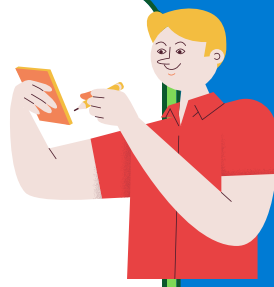


DAY 5 IDEATION BOUT

GENE
ALA

CONGRATS

How do you visualize
your SynBio product to
be used in real world?



You have successfully
designed your GMO!



For inspiration, you can visit previous year iGEM
projects at <https://igem.org/Competition>



RESEARCH INSTITUTES IN INDIA

IISER



IISER Bhopal
INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH BHOPAL



IISER
BERHAMPUR

DAY 5

IDEATION BOUT

IISER (IAT) SCB Entrance Exam

(Indian Institutes of Science Education and Research Aptitude Test)

SCB

* Qualified or **appearing in 12th** with **Science** as mandatory subject

* The **Cut-off percentage** must be obtained in order to be eligible.

*Eligible candidates appear for **IAT**

*The application portal) will open in the **first week of June**

किशोर वैज्ञानिक प्रोत्साहन योजना

KVPY



NATIONAL FELLOWSHIPS FOR STUDENTS
INTERESTED IN RESEARCH CAREERS

KVPY

* A valid **KVPY fellowship** commencing for year **2021-2022**

* Meet **cut-off criteria**

*The application portal) will open in the **first week of June**

JEE Advanced

JEE ADVANCED

* General category candidates must qualify **JEE Advanced 2021** & will have to obtain rank within **10000 in Common Rank List (CRL)**.

*For reserved category, the **category rank** will be considered.

* The application portal will open **after the declaration of the IIT-JEE results**.

IISER APTITUDE TEST

Online (computer-based) mode

The test is tentatively scheduled to be held in mid-August or later.

Each subject will consist of **15 questions**.
Total **60 questions** in the question paper.

Correct answer 3 marks.
Negative marking : 1 mark

DAY 5
IDEATION BOUT

WHAT AFTER IISER?

- ACADEMIA (RESEARCH)
- ACADEMIA (TEACHING)
- INDUSTRY (RESEARCH & DEVELOPMENT)
- INDUSTRY (SALES/MANAGEMENT)
- LEGAL ADVISOR
- SCIENTIFIC WRITING
- PATENT OFFICER/GRANT WRITE
- GOVERNMENT SERVICES: SCIENTIST, SENIOR SCIENTIST, PRINCIPAL SCIENTIST

IISC



NISER/CEBS

NEST EXAM.