

Mission Impossible??

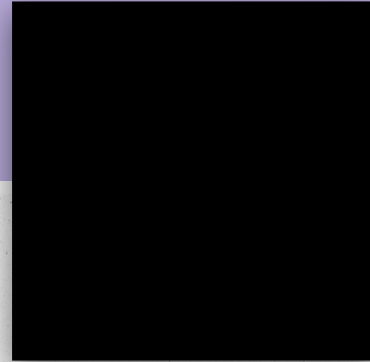
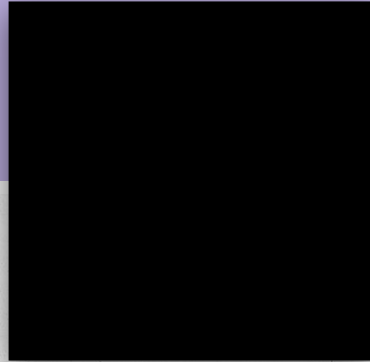
Remove the string from the
paper without untying the
beads and without tearing the
paper



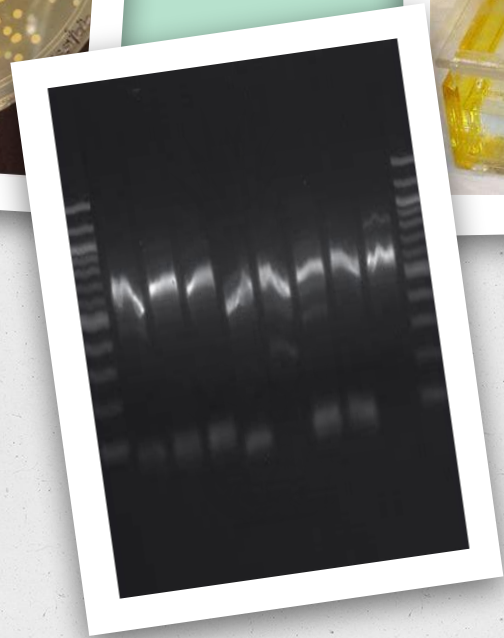
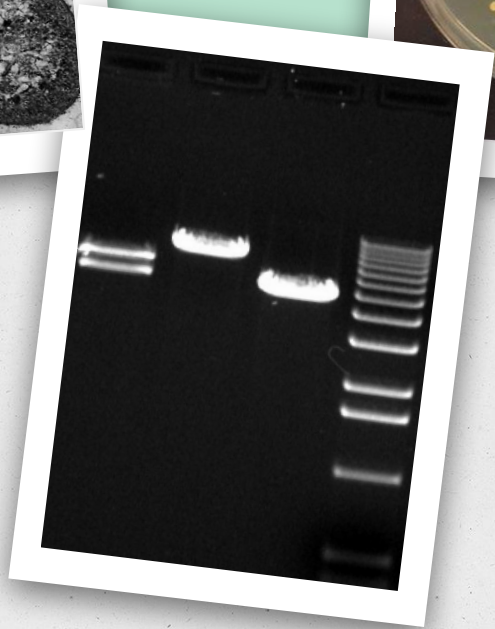
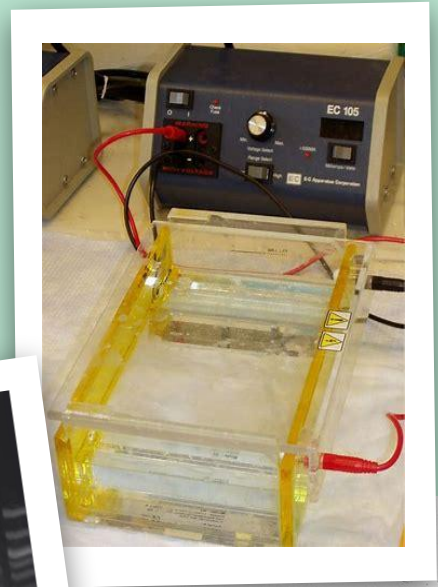
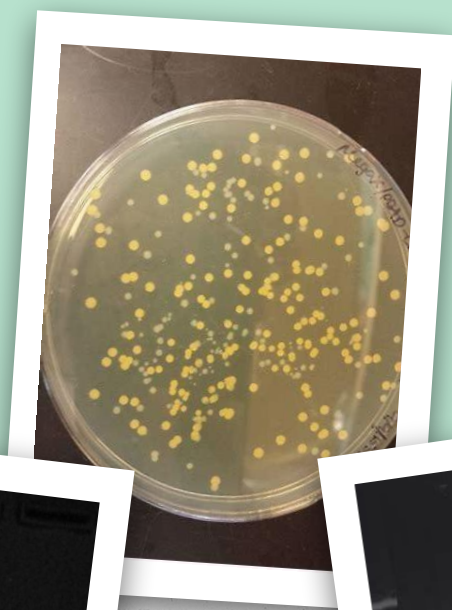
Careers in Science

Jessica Laury - W&M iGEM

Problem Solver



Scientist



cartoon

logo

chart

timeline

icon

quotation

biology

chemistry

physics

math

microbiology

lab

name

animated

space

computer

famous



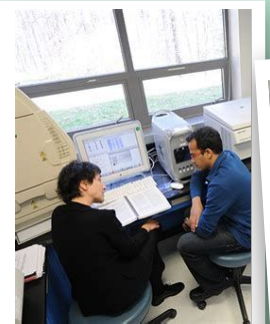
So What are
Careers in
Science?



Epidemiologist



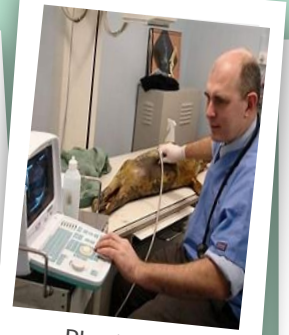
Microbiologist



Computer Science & Math Modeling



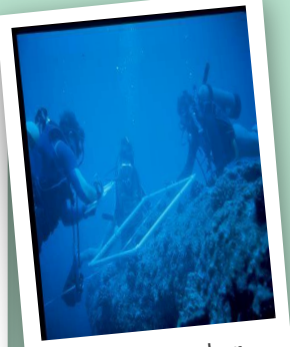
Biomedical Engineering



Physiologist



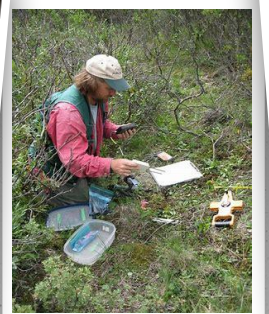
Operations Researcher



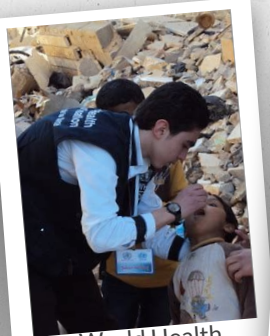
Oceanographer



Forensic Scientists



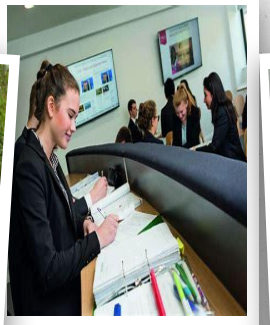
Systems Biology



World Health Organization



Ecologist/Environmental Scientist



Behavioral Science

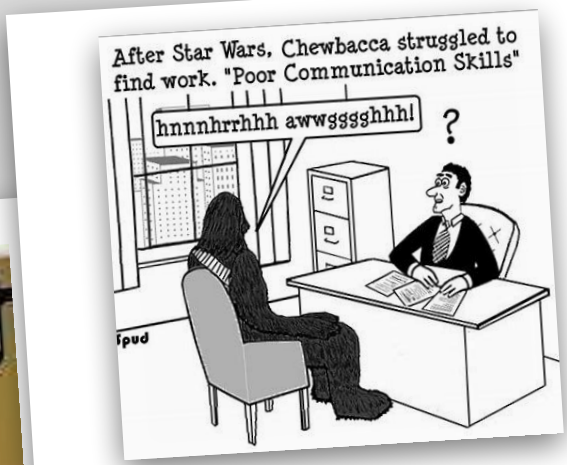


Inspectors

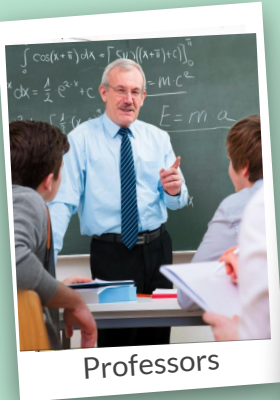


Meteorologist

Problem Solver



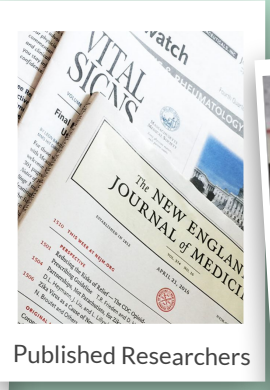




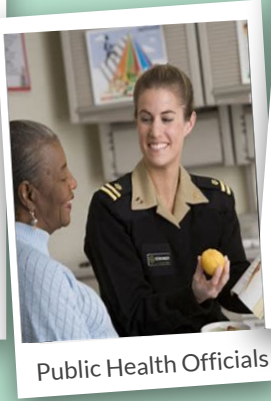
Professors



Journalists



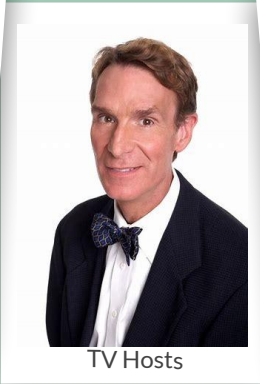
Published Researchers



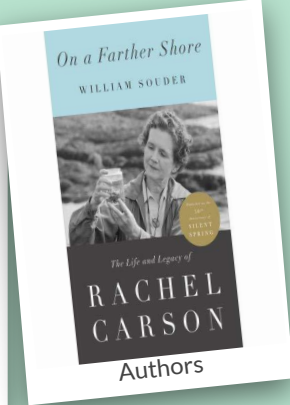
Public Health Officials



Legislators



TV Hosts



Authors



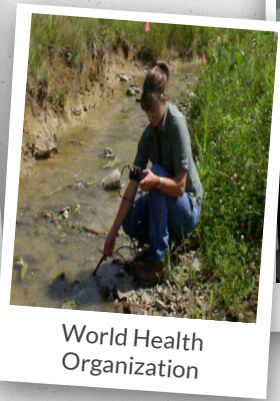
Consultants



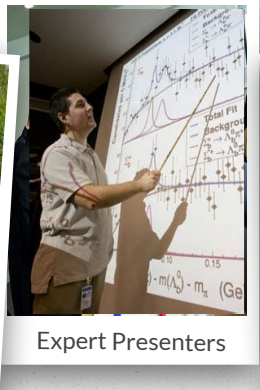
Film Teams



Zoologist



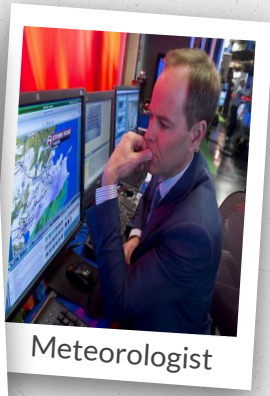
World Health Organization



Expert Presenters



FDA Employees



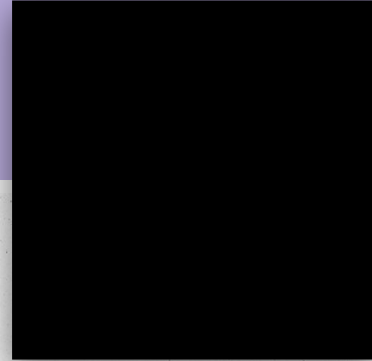
Meteorologist

Communicators

Problem Solver

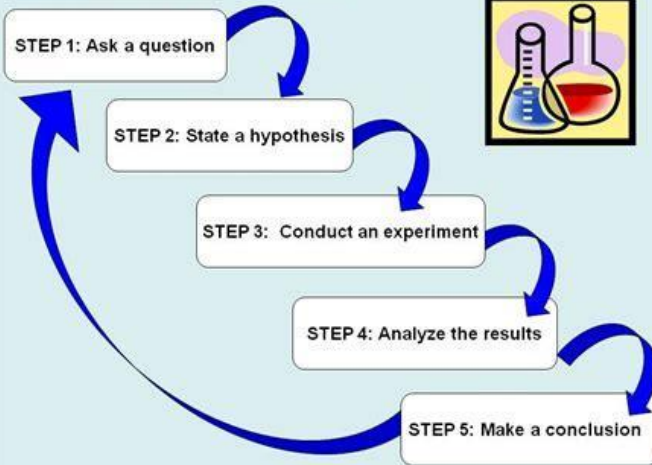


Communicator



Scientist

Scientific Method



It All Starts with a

QUESTION

Your
Question
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Inquirers

Problem Solver



Communicator



Inquirer



Scientist

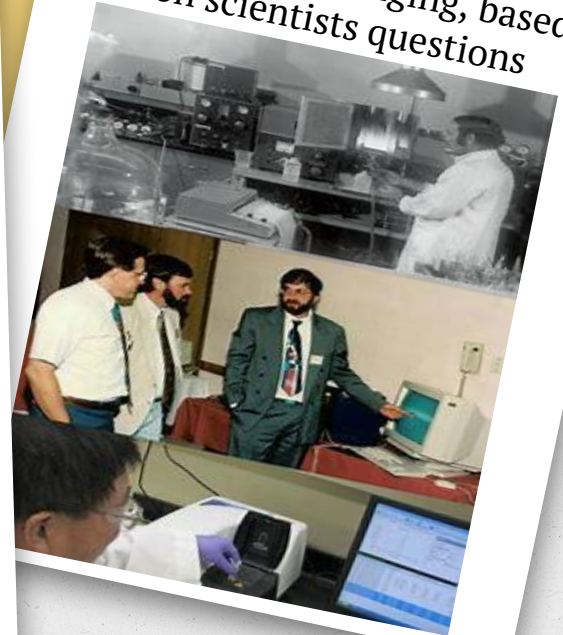
Careers in Science

Use knowledge of natural systems, laws and reactions to solve real world problems



Communicate discoveries with the world

Are always changing, based on scientists questions



What I do in
iGEM and as a
Bioengineer

iGEM



iGEM is an annual biological engineering competition and conference centered around open source, collaborative bioengineering solutions to real world problems

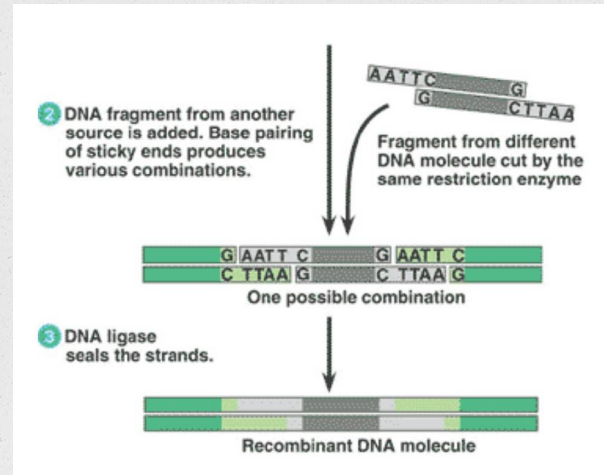
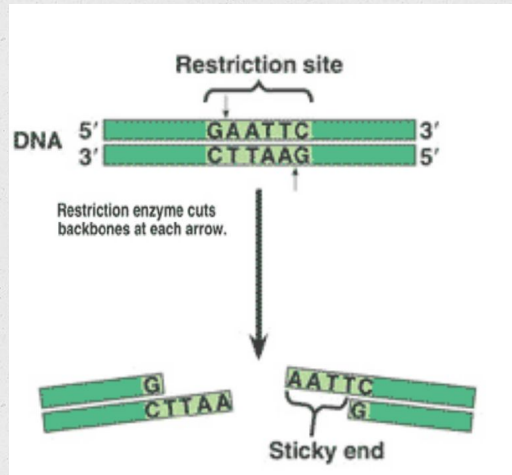
What is Bioengineering?

Bio: Regarding life

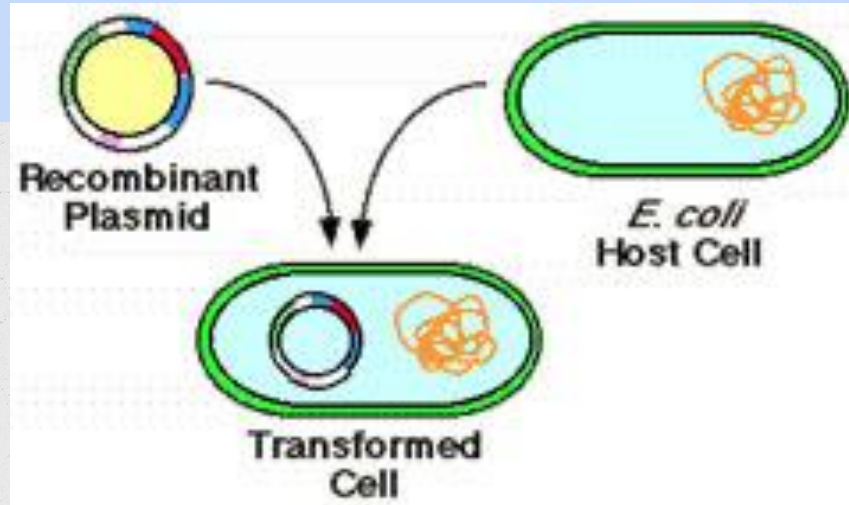
Engineering: To design, build or create

How We Do it

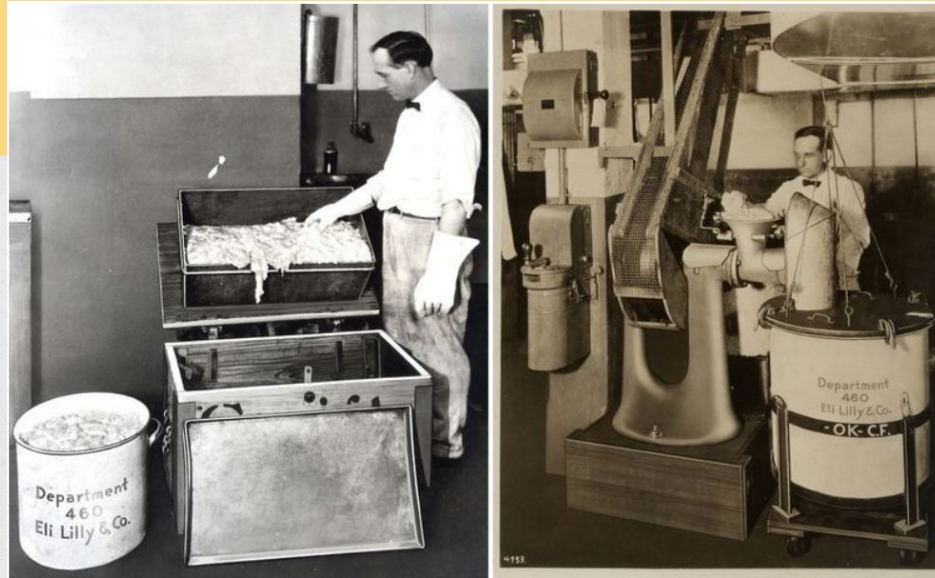
CRISPR-Cas9



Using Plasmids



An Example of Bioengineering



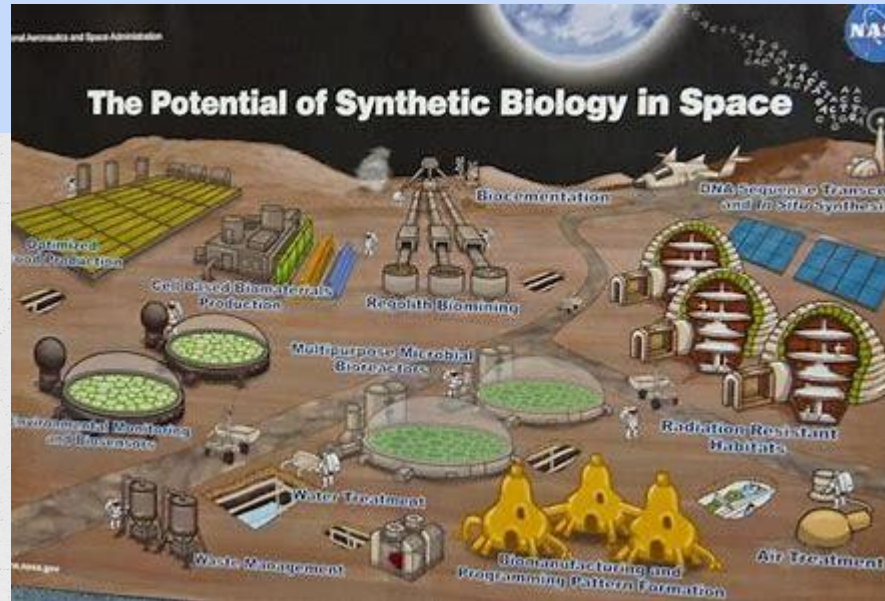
Insulin extraction from pig pancreas (1920)

Out of this World!

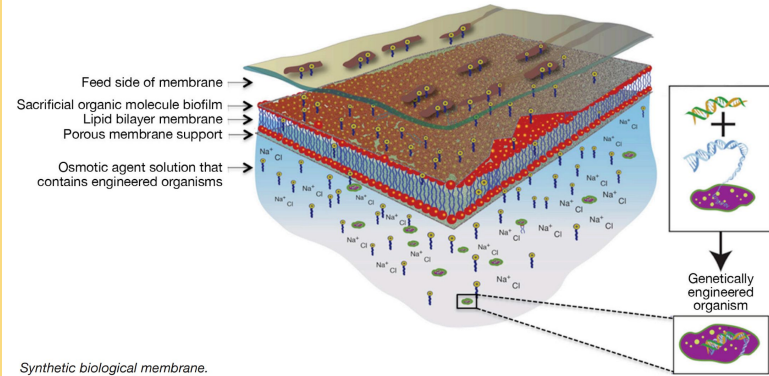
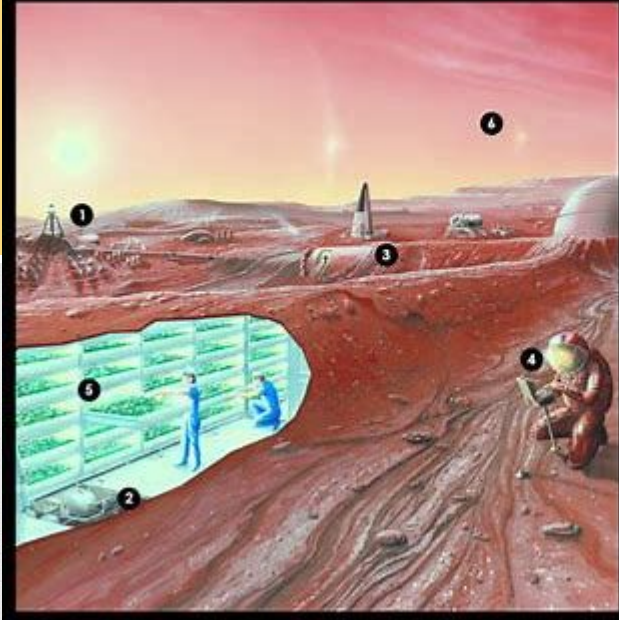
**Bioengineering Making Long Term Space Travel
Possible
The Moon, Mars & Beyond**

What do we need
for this “Mission
Impossible?”

NASA & Mars



Synthetic Biology in the Martian Settlement



**Careers in Science are...
Diverse & Always Changing**

**But Scientists are Always...
Problem Solvers, Communicators &
Inquirers**

**We are Excited to See
What YOU Come Up With**