

THE 2022 YOUNG ENGINEERS' FORUM

HUMAN RACE WELLNESS AND
SUSTAINABILITY

MATERIALS

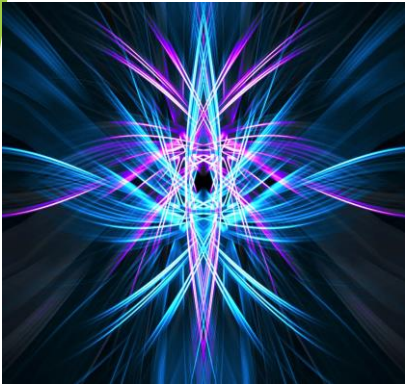
MATTER



ENERGY

ENGINEERING IN A CHANGING WORLD

DEFINING ENGINEERING - The driver of change in the world



Energy

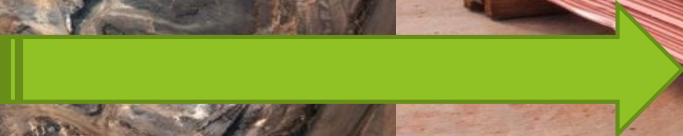


**THE TOOLS, THE RESOURCES
ENERGY , ELEMENTS, MATTER, MATERIAL**

Biblical: Gen1:28 - To replenish the Earth
Of the living matter, - refill, re-supply,



Biblical: Gen1:28 - of inanimate matter- manipulate and enrich, i.e subdue the Elements



LOW



HIGH

**BOSE-EINSTEIN
CONDENSATE**

SOLID

LIQUID

GAS

PLASMA

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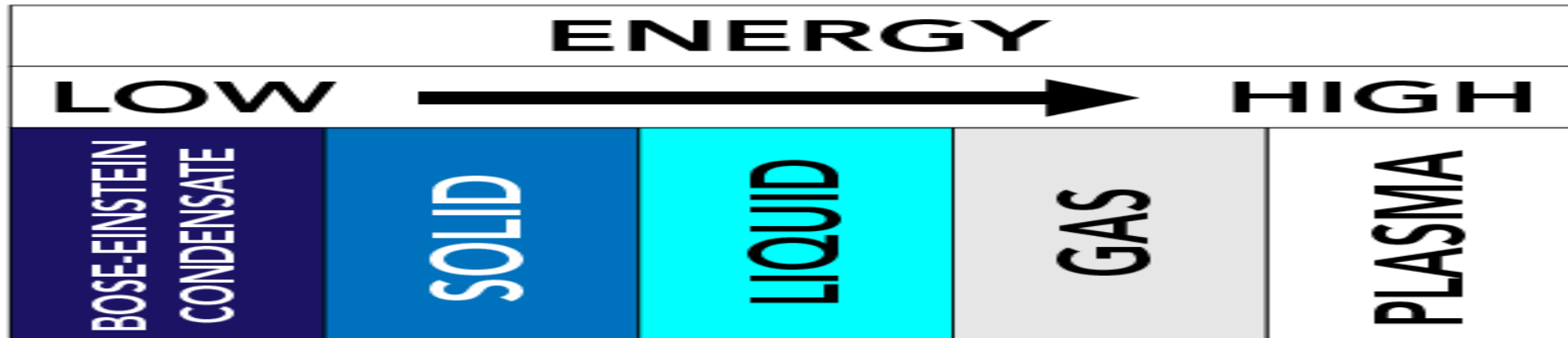
DEFINITION of Engineering:

So, we have this definition of Engineering:

To acquire knowledge of and mastery over material environment and order its elements into the service of the human race.

a fundamental principle of classical physics that matter cannot be created or destroyed in an isolated system is at play here.

Matter and Energy will always be available for manipulation to meet the needs of the human race - Engineers know best how to make this happen



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So we learn to develop and become skilled in

- Computational logic(manipulation of numbers 0 and 1 only) including dimensional analysis (mathematics), a key tool in Engineering and its applications
- manipulating the physical make up of materials so that we can order them into the service of mankind (once we know their properties, it is easy to engineer reactions and change to get what we want..., whether that be structures and mechanics, material products, chemical products, radiation, electricity, magnetism heat and sound

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CRITICALITY OF THE ENGINEERING PROFESSION

So where THE Engineering Profession making strides in a changing world?

Applying Science and Scientific Principles and Mathematics to harnessing nature and create things that address the needs of the human race:

Energy

Shelter

Mobility and Communications

Medicines for wellness

Creativity, Comfort and beauty

Wealth - Creating systems that create wealth..... Engineers - the best friends of investors.

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YOUR TAKE:

Where to in the next 5, 10, 15. 20. 30 years for you as a professional engineer?

What possibilities do you envision?

What is your answer to our pressing demands today?

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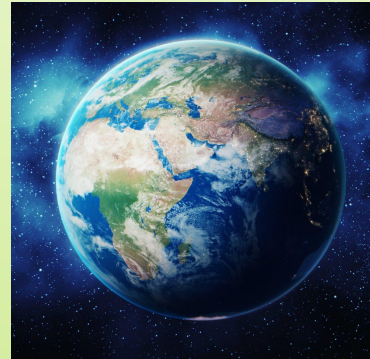
VIEW YOUR
WORLD



SELECT THE
NEEDS



PICK YOUR
CHOICE



ACT TO CREATE
CHANGE



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YOUR TAKE:

Develop Your Personal Development Index

| Index | Score, 0-10 |
|--|-------------|
| 1. Spiritual : Does my life reflect the fear of GOD, Do I live in the Newness of Life, with renewed mind? | |
| 2. Educational: Have I attained the Highest level of Education and skill | |
| 3. Family: Single (0), Married (3), Married with Children (5) | |
| 4. Professional - Not skilled (0), Essential Skill (3), Critical (5) | |
| Financial: Salary (0), Healthy Bank Acct (3), Property (5) | |