



Women: Career In STEM

(Science, Technology, Engineering and Mathematics)

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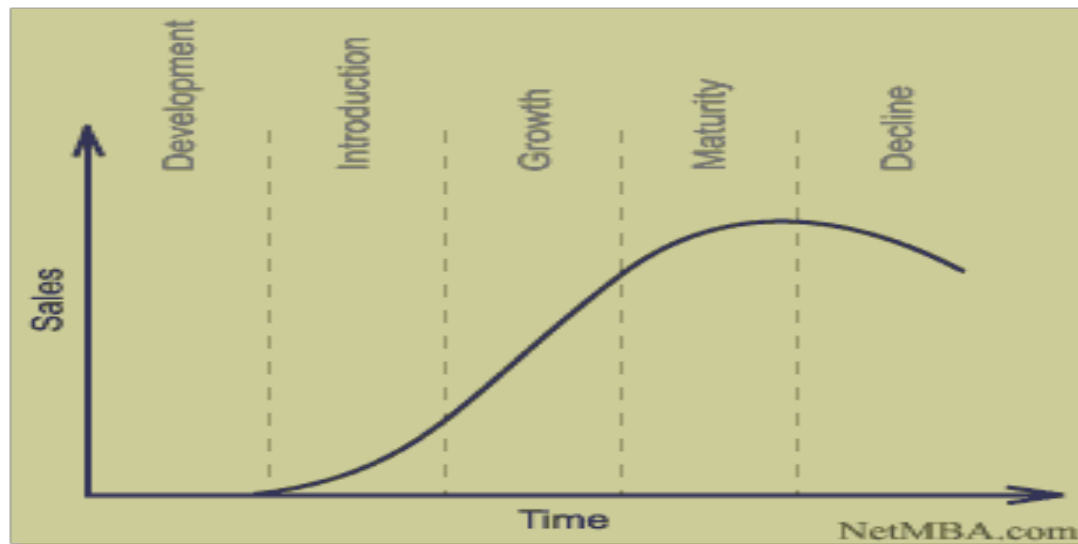
What is a Career?

Random House Dictionary says

“Progress or general course of action of a person through life or through some phase of life“

YOU

- **Are like a product!!**
- **Product has a shelf life**
- **You need to extend the shelf life**



How?



Your Challenge

To start with: You already have some

- **Subject related Skills**
- **Behavioral Skills**

But Still you are:





Your Target market

- **Industry**
- **Educational Institute**
- **Entrepreneurship**
- **NGOs**
- **Government Labs and Institute**
- **Others**



Initial Few years of your career

- oSelf Building**

- oLearning from Others**

- oSelf Evaluation**

- oKey Differentiators to win the market**



Self Building

- **Learn as much you can**
- **No job is bad**
- **Better paying job is not necessary a suitable job**
- **Enhance your skill: reading, listening & observing**



Learning from Others

- **Distinguish: JEALOUSY vs COMPETITIVENESS**
- **Avoid unnecessary comparison**
 - **Salary Data**
 - **Project challenges**
 - **Type of assignment**
 - **& Many other details**
- **But learn from others experiences**



Self Evaluation

- **Appraisal**
 - **Data driven**
 - **Perception about you**
 - **Improvement areas**
- **Do not enter into the blame game with**
 - **colleague**
 - **manager**
 - **work**
 - **environment**
- **BUT LEARN FROM EXPERIENCE**



Key Differentiators

- **Soft Skills Start playing a role**
 - **Behavior**
 - **Attitude**
 - **Communication**
 - **Teamwork**
 - **Initiative**
 - **leader of wrong doings**
- **Subject Matter expertise**



Now know your value

- **Know yourself**
 - **Strengths**
 - **Weakness**
- **Build on your Strengths**
- **Choose the area**
 - **Where you can be in TOP 20-30%**



Re-Launch yourself

- **Continue in the same area and same role**
- **Continue in the same area and take new roles**
- **Repositioning by taking emerging function**
- **Switch the industry**



Why STEM?



History: Human Progress through STEM

- **2000 BC: Rig Veda on Astronomy**
- **1500 BC: Civil Engg in Harappa**
- **300 BC: Charak's contribution to Ayurveda**
- **500 AD: Aryabhata's Algebra**
- **2008 AD: Chandrayan I mission**



STEM and GDP

- **WSJ of Mar 2008**

**Study on Science and Maths will trigger
2/3 percentage point to GDP every year**

(If US performs at par with World leaders)



Career Options

- **Green Technology**
- **Nanotechnology**
- **Internet**
- **Engineering**
- **Medicine**

And many more...



Green Technology

- **Growth of GDP is directly linked with Carbon emission**
 - **World is struggling to control this emission**
 - **This provides numerous opportunities to work in multiple areas which can reduce these emissions**



Nanotechnology

- **Potential to create many new materials and devices**
 - **Medicine**
 - **Electronics**
 - **Energy**



Internet

- **Opportunities are plenty**
 - **Complex algorithms to Simple applications**
- **Can be carried out from Home**
- **Does not require much capital to start**



Engineering

- **Almost each engineering discipline is full of opportunities in a growing economy**
- **Semiconductor, Telecom, Software are always a key driver for last few decades**
 - **As they are changing the life style quickly**



Medicine

- **Population growth triggers growth of healthcare and its associated industry**
 - **Medicine**
 - **Medical equipments**
 - **Pharmacy**
 - **Biotechnology**
 - **And many more**



Summary

- **Lead a healthy Life**
- **Do what you want to do**
- **Have fun**