

# Career Options for Life Science graduates in the Industry: An Overview

# Sharing content . . .

Types of company / industry & Examples

The career options: Commercial. Manufacturing. Others.

<u></u> Take home messages

**For more information: PharmacistCoaches.Com** 

# YK PNG

Coach & Mentor. Corporate Trainer. Speaker.

PharmacistCoaches.Com Experience + Theories + Customized Solutions, plus Coach-toring = Limitless Possibilities



nternation

#### Education

- Transformation Leadership Coaching Course, an ICF certified program (2022).
- National University of Singapore (1987): Bachelor in Pharmac (Honours).
- Curtin University, Australia (1998/99): Master in Internationa Business.
- Singapore Institute of Management (1990): Graduate Diplom Marketing Management.
- Chartered Institute of Marketing, UK (1991): Diploma in International Marketing.
- Chartered Association of Certified Accountants, UK (1995 Certified Diploma in Accounting and Finance.
- UCB Global Leadership Program (2003).
- Universitas 21 (2010): Quantum Leap Management. Stanford University & HK University (2013): Li & Fun
- Leadership Program. PACE Academy / Parkway College (2017): Certificate of
- PACE Academy / Parkway College (2017): Certificate of Performance in Healthcare Management.



NUS National University of Singapore



## • Education background:

 B Sc (Pharmacy) (Honours) (NUS) / Master in International Business (Curtin) / Dip. Marketing (CIM, UK) / Grad Dip Marketing. Management (SIM) / Cert Dip Accounting & Finance (ACCA, UK). Leadership Coaching Course (ICF). Advanced Certificate in Learning & Performance (ACLP – on-going) (IAL).

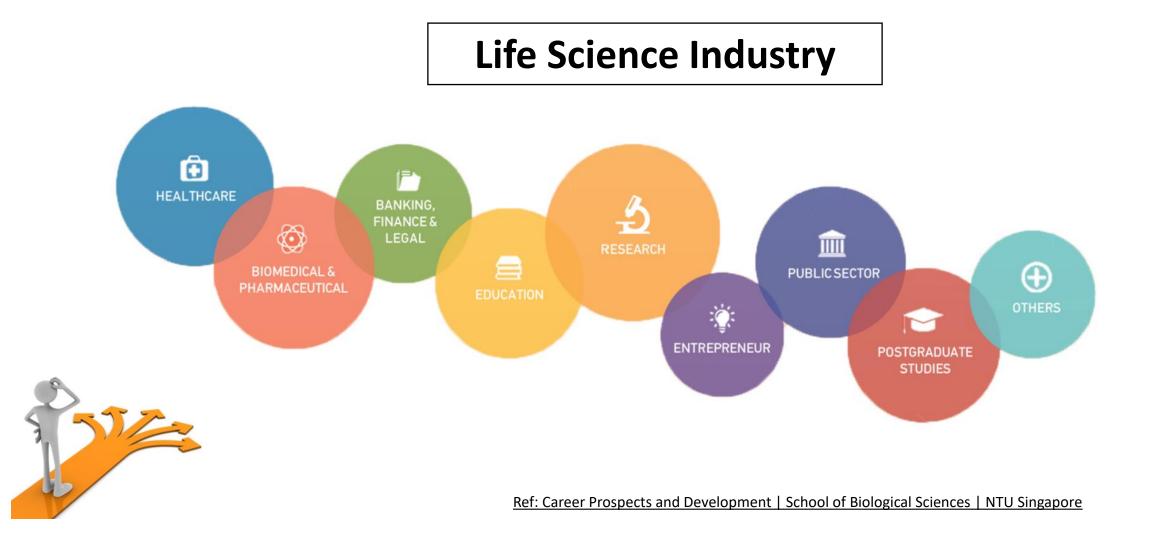
## • Career experience: Life Sciences (Commercial & Logistic/Supply Chain)

- Founder: PharmacistCoaches.Com
- Leadership & career coach, trainer and speaker.
- Vice President / Regional General Management (SEA, Indochina, China, HK, Macau).
- Expatriate job in China (& also Hong Kong, Macau).
- Pharmacist: Hospital / Community.

## • Professional memberships / Awards:

- Appointed member of Singapore Pharmacy Board Complaints Panel, Ministry of Health 2013/15, 2015/2017, 2017/2021, 2021/2023.
- Pharmaceutical Society of Singapore: member / Vice President (2002/3). Life member. Chairman, Financial Advisory Committee (2022).
- Medical Alumni: member (resigned).
- Singapore National Stroke Association: Life member.
- Professor Lucy Wan "Pharmacist of the Year 2000" Award.
- PSS-ICM Industry Pharmacist of the Year 2017.

## Life Science Graduates: Highly Flexible in Many Fields



# **Career Options in the Industry**

#### Industry:

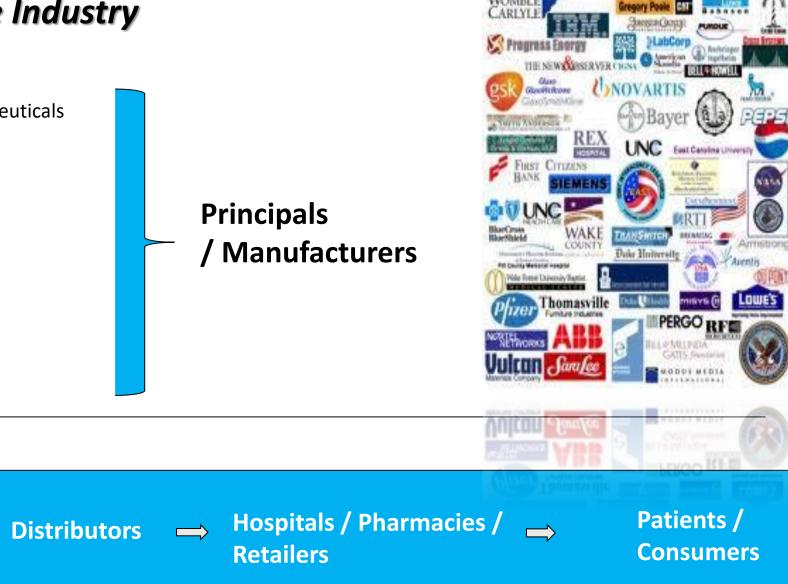
- Pharmaceuticals/BioPharmaceuticals
- Medical devices
- Medical equipment
- Consumer Healthcare
- Biotechnology
- R&D / Clinical trial, ...
- Distributors / wholesalers

• Generics manufacturers

## Supply Chain . . .

(Manufacturers)

**Principals** 



## Examples . . .



## Pharma/Biopharma

Generics

Top 20 Generic Companies By 2018 Revenue OpharmaShots						
01	02	03	04	05 🕥		
Mylan <sup>®</sup>	teva	SANDOZ A Novartis	Pfizer	SUN		
06	07 🔊	08 🛄	09	10 🐢		
F FRESENIUS	AUROBINDO	LUPIN	hikma.	Dr.Reddy's		
11	12	13 🎅	14	15		
Cipla	sawai	SANOFI	STADA	amneal		
16 <sub>6</sub>	17	18	19	20		
Glenmark A new way for a new world	B torrent	@endo	Mallinckrodt	🧳 Piramal		

Top 20 Medical Device Companies Based on 2019 Revenue						
01	02	03	04	05		
Medtronic	Johnson-Johnson			CardinalHealth		
06	07	08	09	10		
stryker	😝 BD	<b>Abbott</b>	Baxter	Scientific		
11	12	13	14	15		
B BRAUN SHARING EXPERTISE	ZIMMER BIOMET	<b>3</b> M	Alcon	DANAHER		
16	17	18	19	20		
OLYMPUS	INTERVENTIONAL EVENTEME	GE Healthcore	PHILIPS Healthcare	SmithNephew		

## **Medical Devices / Equipment**



## Biotechnology (emerging . . . China)

Clintec Covance						
For Pharmaceutical O Companies	For Healthcare Professionals					
Bug Listing Matxeting Platform Medical Communications For Healthcare Institutions Reference & Onicel Decision Support HCPs Recruitment Services (Domestic & Oress-border)	Free and lifetime access to online platform     Up-to-date information and medical news     Download award-winning medical megazines     Celendor of medical events and symposiums     Celendor of medical events and symposiums     CH6 accredited content available for doctors					

## Examples . . .











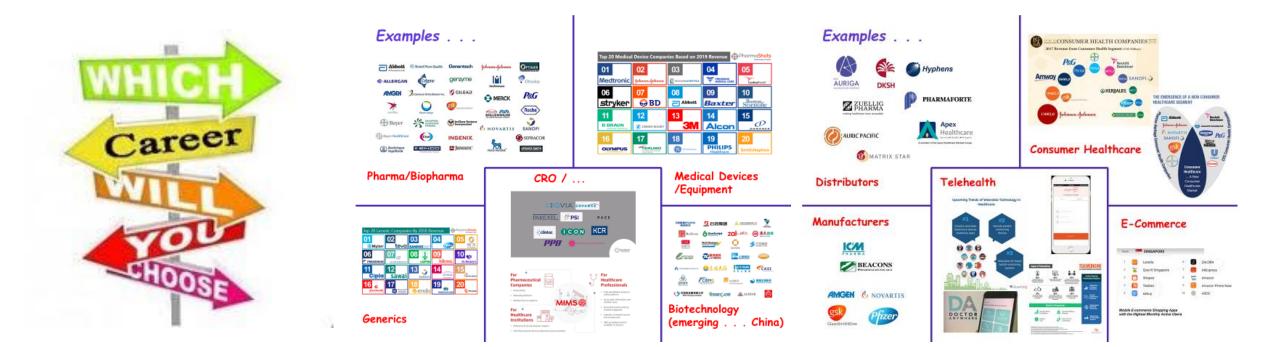
Telehealth











## **Career Options**

- : Commercial (S&M, RA, MSL, ...)
- : Manufacturing (Engineers, QA, R&D, ...)
- : Institutions (eg. Hospital, Gov't agencies)
- : Others, including entrepreneurship and postgraduate studies



# **Career options in the Industry: Sales**



## How much does a Pharmaceutical Sales Representative earn?



## Typical remuneration (Sales job):

- → Base salary: market benchmark
- → Car allowance: S\$1K to S\$1.5K (excl car park charges, claimable)
- → Commission: S\$1.5K to S\$2.5K
- ➔ Mobile, ...



## Which industry? Attributes?

Question: Must you be "talkative" or an "extrovert" to be a good sales person?

## Industry:

- Pharmaceuticals / Biopharmaceuticals
- Consumer Healthcare
- Biotechnology
- Medical devices
- Medical equipment
- Distributors / wholesalers
- R&D / Clinical trial, ...

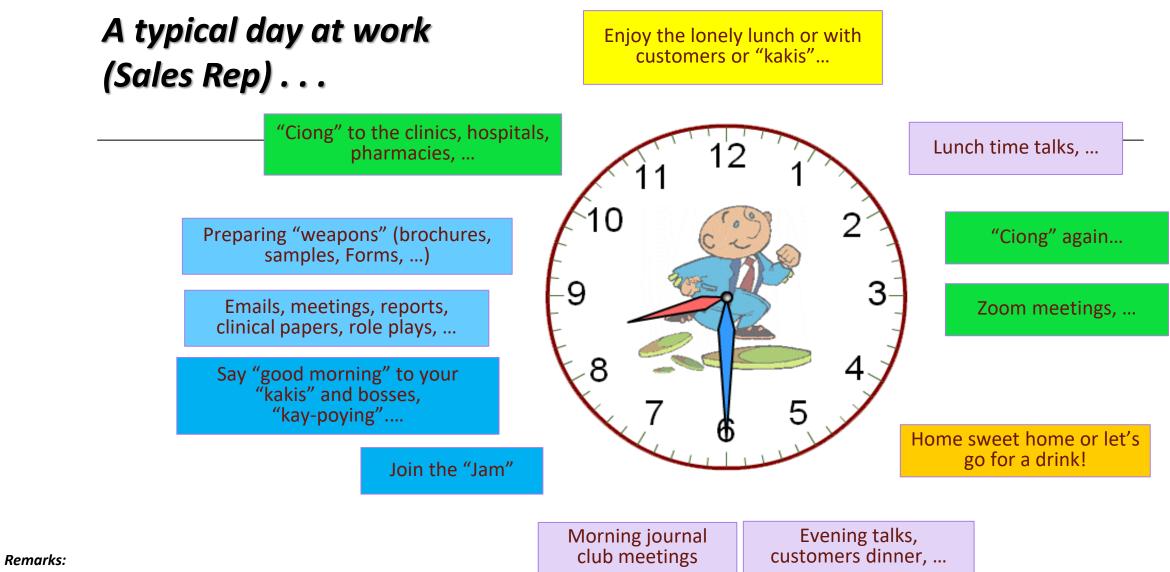
## **Possible advantages:**

- Good understanding of product knowledge
- Clinical knowledge (eg. Pharmacy graduate)

### Attributes:

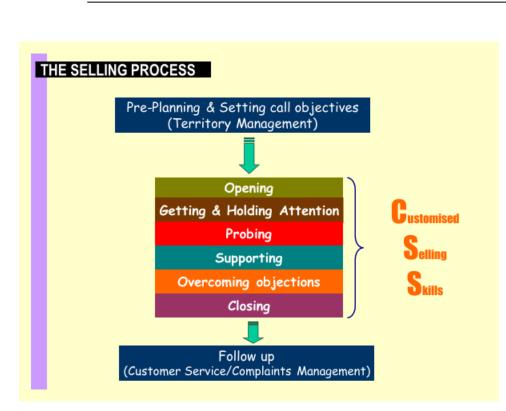
- Meeting people
- Freedom
- Disciplined, Persistence, Positive, ...
- Sales pressures
- Customer service / good listener
- Good communicator / Presentation skills
- "Sky is the limit"...
- "Failure is a must, not an option"...
- etc, etc . . .

Network



Reps may not need to be back to office everyday or at the end of the day.

# An example of job duties for a Pharm Sales Rep . . .



- ✓ Meet sales target & non-sales KPIs
- ✓ Achieve required number of calls: 8 to 10 calls a day
- ✓ Attend company meetings
- Possess good product knowledge and selling skills
  - (trainings provided for new reps)
- ✓ Effective utilization of selling and promotional tools (eg. detailing aids)
- Organize sales &/or product presentation
- ✓ Assist in marketing activities eg. product talks and workshops, trade

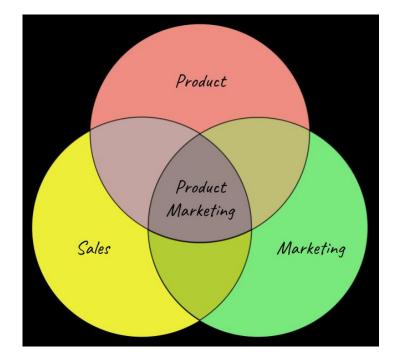
exhibition, invite doctors to oversea congress, ...

- Build strong customer relationship and loyalty
- Maintain strong compliance requirement (pharmacovigilance & compliance): eg. product sampling, ADR, ...
- Strong team player: eg. close working relationship with fellow colleagues from sales & marketing.

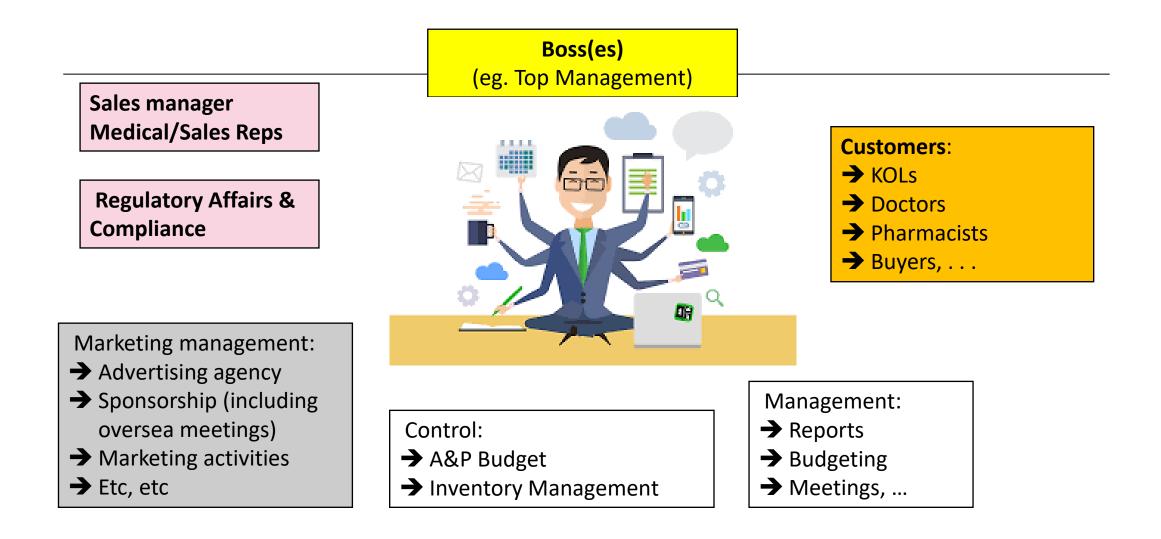
# **Career options in the Industry:** Marketing

### **Product Manager Responsibilities**





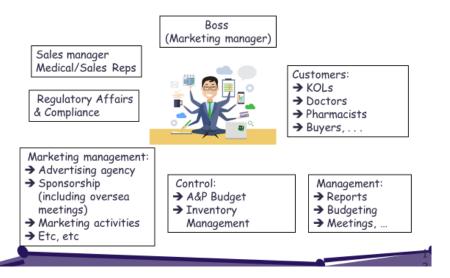
# **Typical job scopes of a Product Executive/Manager**



# Example of "What does a Product Manager do?"

#### Career options in the Industry

Product Management (Marketing)



### Business:

- ✓ Field visits, either alone or with sales reps
- ✓ Conduct talks & marketing activities
- $\checkmark$  Travel with doctors to oversea congresses
- ✓ Participate in trade exhibition, congresses, ...
- $\checkmark$  Lunch with doctors, ...

## Marketing:

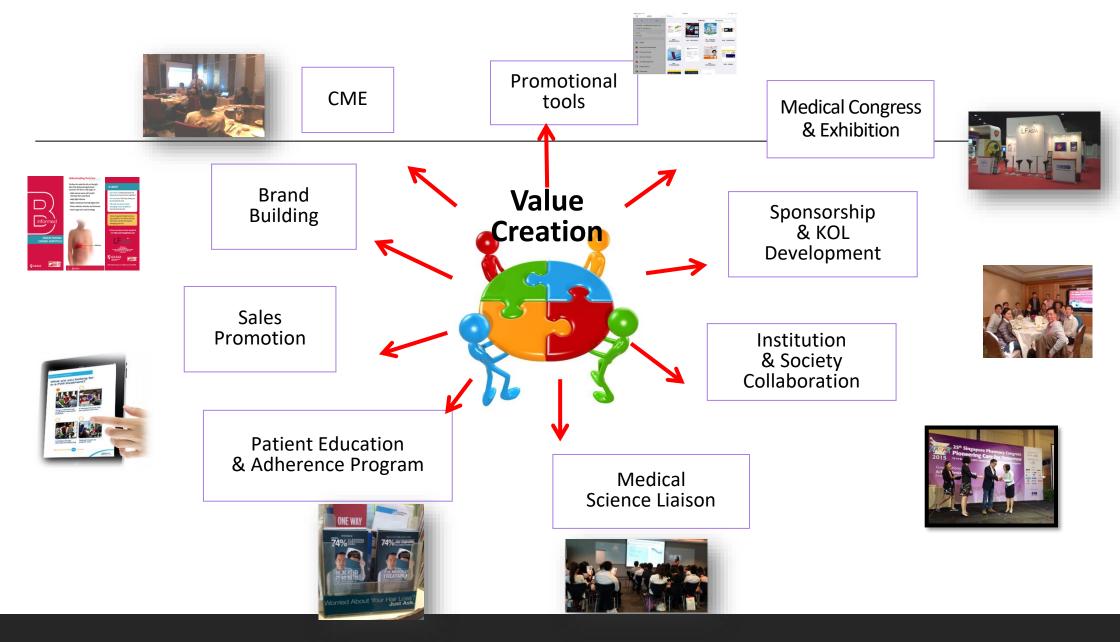
- ✓ Develop marketing materials, eg. detailing aids, gimmicks, ...
- ✓ New product launches
- ✓ Business development: Market evaluation, competitor analysis, ..., etc, ...

## Management / Regulatory & Compliance:

- ✓ Prepare marketing plan, budgeting, ...
- ✓ Attend management & marketing meetings, ...
- ✓ A& P control
- ✓ Product sample control
- ✓ Inventory management
- ✓ Pharmacovigilance / compliance, etc,...



## Value Creation – Omni-channel Marketing Strategy (Pharma)



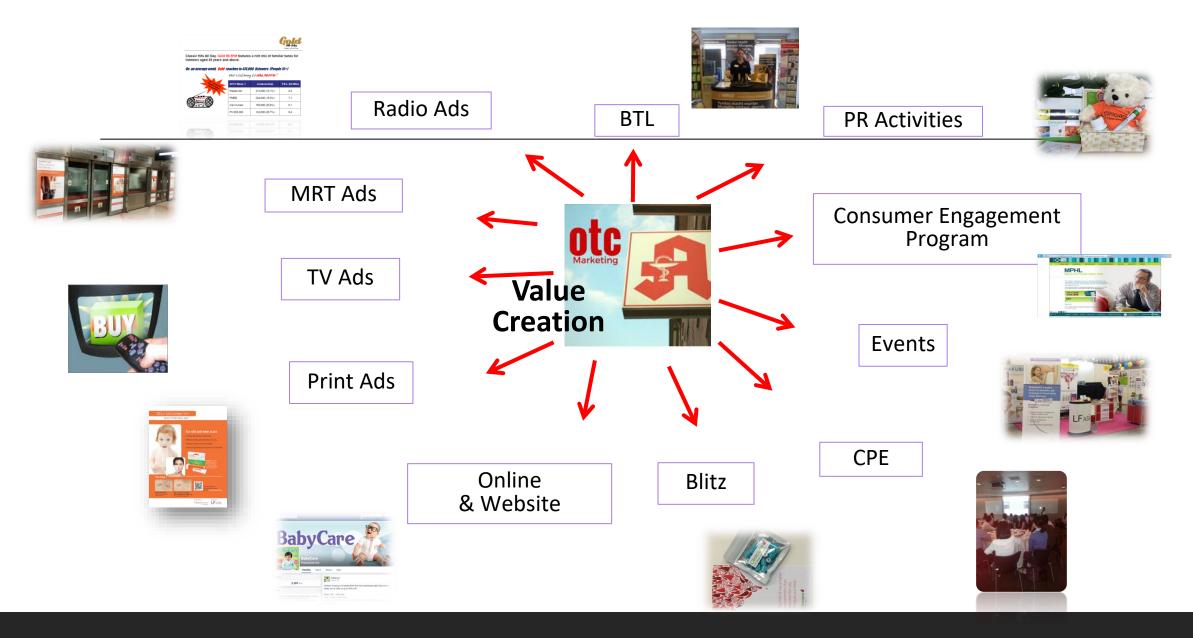
## **Omni-channel Marketing**

Omni-channel is a multichannel approach to sales that seeks to provide the customer with a seamless shopping experience whether the customer is shopping online from a desktop or mobile device, by telephone or in a bricks and mortar store.

The term "omni-channel" may be a marketing buzzword, but it refers to a significant shift: marketers now need to provide a seamless experience, regardless of channel or device. Consumers can now engage with a company in a physical store, on an online website or mobile app, through a catalog, or through social media.



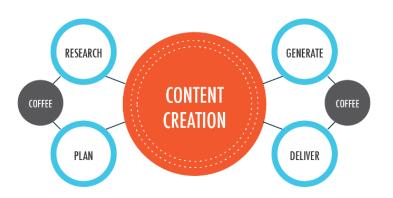
## Value Creation – OTC / Consumer Marketing



# **Social Media Marketing**

#### **Create Your Content**

- Content: written words, images, videos or infographics.
- Quality content that lures and hooks prospects to your website.
- Use a content creation calendar as a guide on when to post, topics and the targeted social media sites.





#### Know Your End-Point (Vision / Objectives)

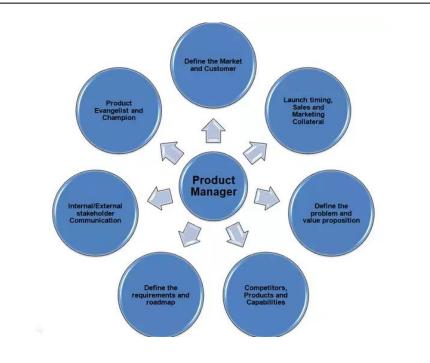
#### **Know Your Customers/Consumers:**

- Age, teens, youth, middle age, over 50 years etc.
- Whether in employment or not
- Location, living in urban or peri-urban areas
- Marital status, single, engaged, married, divorced, widow, widower
- Social media networks commonly used

- Execute with Excellence (Scorecards) Examples:
- Reach
- Number of shares made
- The rate of conversion
- Awareness levels
- Keep track of every activity

https://mediaonemarketing.com.sg/social-media-marketing-in-singapore/

## Product Management (Marketing)



## Personal advice:

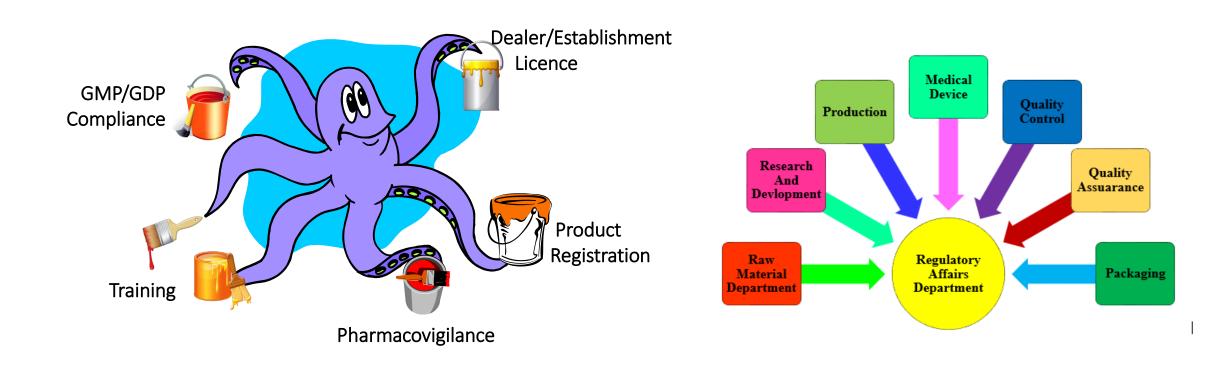
## <u>Attributes</u>:

- Meeting people
- Strategic
- Management & sales pressures
- Customer oriented
- Good communicator
- Motivator
- Sales experience
- Organizational & executional skills
- Marketing knowledge
- Entrepreneurial (innovative)
- Travels, etc, . . .

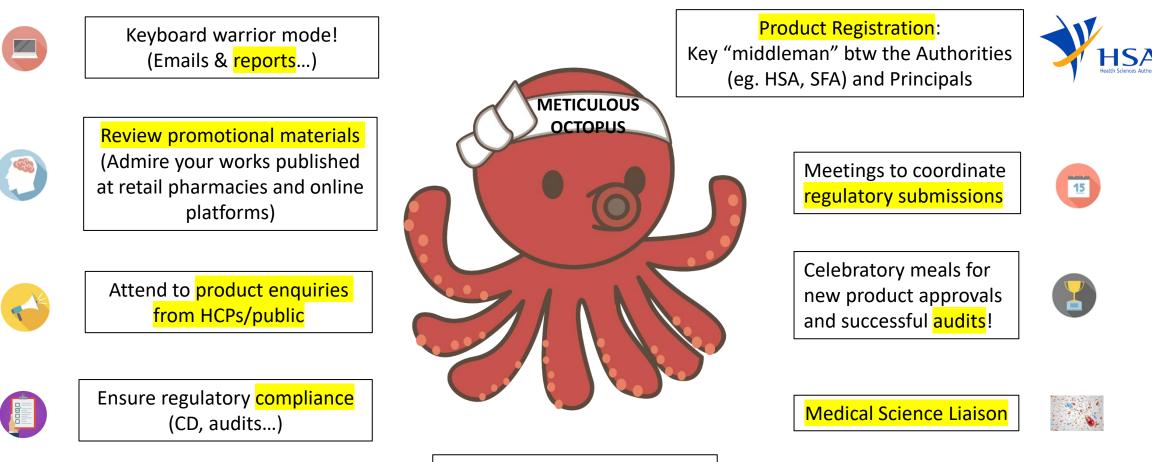


- Might be good to start off as a professional sales rep first before embarking on marketing
- Do a post-graduate diploma in marketing

# **Career options in the Industry: Regulatory Affairs**



# Life as a Regulatory Affairs Executive...

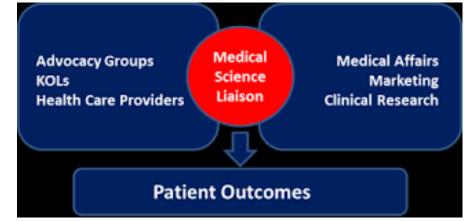


Networking with KOLs during conferences/exhibitions

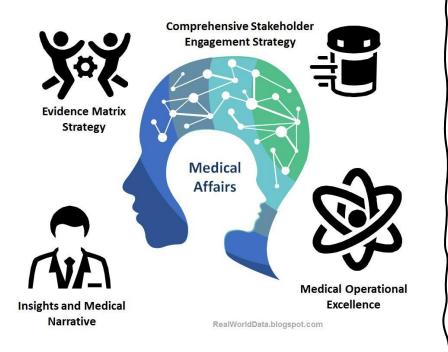
# **Career options in the Industry: Medical Science Liaison**

## What is a Medical Science Liaison?

Medical Science Liaisons are vital in the success of a company. They work throughout a product's lifecycle, help to ensure that products are utilized effectively, serve as scientific peers and resources within the medical community, and are scientific experts to internal colleagues at companies. However, the primary purpose of the MSL role is to establish and maintain peer-peer relationships with leading physicians, referred to as Key Opinion Leaders (KOL's), at major academic institutions and clinics.







Medical Affairs are becoming a central function and core element of all pharma operations.

•Medical launch leadership with trusted partnership with Key opinion leaders (KOLs) or Healthcare Professionals (HCPs) and medical societies

• Drive scientific exchange communications, treatments awareness and early patients screening

• Track the emergence of new **KOLs** and other influencers.

•Advance medical evidence insights based on standard of care and market access

• Industry leading **data dissemination and education** (*publications, continuous medical education, standalones*)

• **Cross-functional collaboration** between medical-clinical-commercial-market access and global/regional affiliates (when speaking about multi-national companies)

# Becoming a MSL . . .

## Attributes:

- Clinical knowledge, ٠ continuous improvement
- Meeting people (networking) ۲
- Confident, charismatic, ... ٠
- Good communicator / ۲ **Presentation skills**
- **Commercial vs Clinical** ۲
- Travels
- etc, etc, . . .

# **MSL** Activities

Regardless of which country the MSL works in, their activities are consistent...

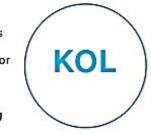


#### The vast majority of MSL activities are identical and primarily

Consistent

Over 98% of MSLs reported that they were responsible for KOL relationship management and around 92% reported educating KOLs.

Engagement

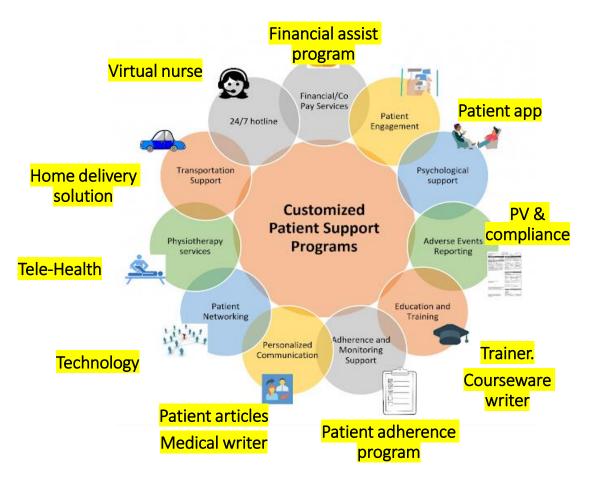


MSL

#### Dr. Samuel Dyer - Chairman of the Board - Medical Science Liaison Society

www.themsls.org

# Career options in the Industry: Patient Support Program



# Career options in the Industry: Training & Education (TAE Professionals)



## Personal advice:

Consider ACLP and/or DDDLP to become a certified Adult Educator.

## Contributions:

• Internal:

- Product trainings
- Corporate talks
- Clinical reviews
- Pharmacovigilance training
- External:
  - Customers / Assistants, ...
  - Institutions talks
  - Exhibitions

# **Career options in the Industry: Biopharmaceutical Manufacturing**

Source: SkillsFuture Framework:

- 3% of Singapore's GDP (2016).
- >7000 jobs.
- >29 facilities manufacturing products ranging from chemical, biological and cell therapy products to nutritional.
- Value-add and manufacturing output S\$11b to S\$17b.
- 8 out of 10 top pharmaceutical companies have facilities in Singapore: Pfizer, Novartis, Sanofi, Amgen, Takeda, ....



Contributed 3% to Singapore's 2016 nominal GDP



Accounts for close to **7,000 jobs** 



Singapore has a base of more than 29 facilities manufacturing products ranging from chemical, biological and cell therapy products, to nutritionals

**S** 

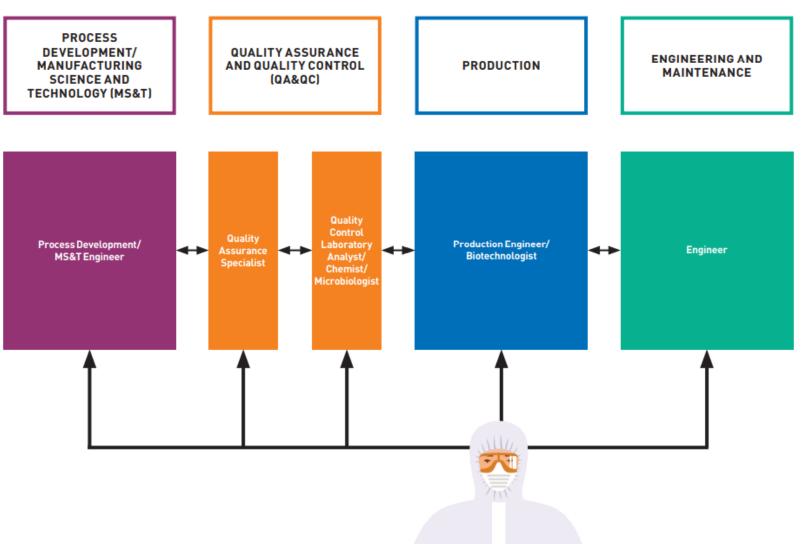
In 2016, Biopharmaceuticals Manufacturing Value Add and Manufacturing Output stood at around SG\$11B and SG\$17B respectively



**Eight out of top 10 pharmaceutical companies** have facilities in Singapore, manufacturing four out of the top 10 drugs by global revenue

# What can I work as . . .? → Engineer. QAQC...

- Process Dev't/Manufacturing Science & Technology (MS&T)
- Quality Assurance & Quality Control (QA&QC)
- Production
- Engineering & Maintenance



# Skills in demand . . .

- Continuous manufacturing skills, green, ...
- Quality management & compliance
- Regulatory affairs, pharmacovigilance
- Process management, automation (technology), ...

SSG | Skills Framework for Biopharmaceuticals Manufacturing (skillsfuture.gov.sg)

#### DESIRED ATTRIBUTES



#### Analytical

Enjoys analysing things from all angles to solve problems

#### Integrity



Demonstrates sound moral and ethical principles at work and in relationships with co-workers and stakeholders



Meticulous Pays attention to details and accuracy



#### Responsible

Recognises the implicit obligation on accountability to ensure work processes run reliably and efficiently

#### Safety-minded

Recognises the implicit responsibility for ensuring safe work practices and conditions in a high-risk environment

#### Team Player

Understands that each person is part of a larger team working together to bring about success at the workplace

# SKILLS IN DEMAND



#### Continuous Manufacturing Skills

Enable continuous flow, end-to-end manufacturing strategies



#### **Compliance and Regulatory Affairs Skills**

Manage regulatory issues set by international regulatory authorities to meet regulatory demands throughout the life of a product



#### Green Manufacturing Skills

Innovate and enable ecologically friendly processes to support sustainable green manufacturing



#### Multi-product Operations Skills Apply processes to manufacture variety of products with different specifications



#### **Process Analytical Technology Skills**

Apply automated process control methods throughout the value chain of the product

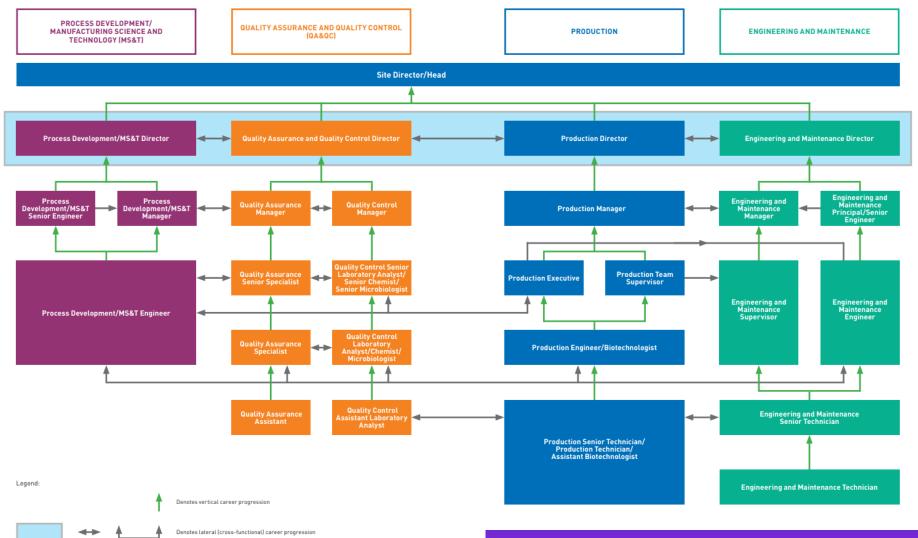


#### Quality by Design Skills Integrate target product quality into biopharmaceuticals manufacturing processes



#### SKILLS FRAMEWORK FOR BIOPHARMACEUTICALS MANUFACTURING

**Career Pathways** 



The Career Map serves as a reference to reflect the available job roles and possible career pathways in the biopharmaceuticals manufacturing industry, which may vary depending or the organisation's structure and business context. The Career Pathway would depend on individual aspiration, performance, capability, experience and the organisation's needs.

#### SSG | Skills Framework for Biopharmaceuticals Manufacturing (skillsfuture.gov.sg)

# Career options in the Industry: Quality Management

## <u>Challenges</u>:

- Resistance from other departments.
- Lean team
- Diversified customer and regulatory requirements to fulfil.

## • Attributes:

- Meticulous and detailed-minded.
- Communication & writing skills.
- Resilient & Positive mindset.
- Firm but flexibility (balance btw Compliance vs Commercial).
- Good time management.
- Leadership.
- <u>Advice</u> for new graduates: Embrace new challenges with an open mind.



# Work day for a Quality & Compliance Executive (Logistic / Supply Chain Sector)

Attend problem-solving and operational meetings

Review and approve quality documents (eg. SOP)

Resolve issues in secondary assembly operations

Quality inspection of return goods

Quality release of redressed goods and packaging materials



Resolve product complaints between customers and product owners Ensure quality compliance to ISO 9001, ISO13485 and principals' requirements

Attend to queries via emails

Manage a team of secondary assemblers

Host internal, principal and regulatory <mark>audits</mark>

Question: Are you trained in QC & compliance, GMP, GDP, SOP, ...?

# **Career options in the Industry: Pharmacovigilance & Compliance**

# **Big Pharma KEY FINES**

In such a high-risk industry, exhaustive due diligence procedures are of critical importance. Yet examples of failures to implement such measures litter recent history with large fines and regulatory penalties meted out to companies that have transgressed.



Novartis reaches \$945m settlement of US bribery lawsuit (2020)

Teva agrees to pay US\$519m to settle corruption charge (2016)

GSK hit with €380m corruption fine in China (2014)



Tevo

THE IRISH TIMES

million

settle allegations by the US Justice Department that it had

manufacturer Bristol-Myers Squibb agreed to pay more than \$14 million

in fines to settle charges that its joint venture in China paid cash and other benefits to state-owned hospitals in exchange for prescription sales.

# **Career options in the Industry: Pharmacovigilance & Compliance**

#### Legal obligations imposed by the PDPA

The PDPA imposes 9 OBLICATIONS on the following activities -

- COLLECTION: Any act through which an organisation <u>obtains</u> passession or control of personal\_data;
- USE: Any act by which an organisation employs the use of personal data;
- DISCLOSURE: Any act by which an organisation discloses or transfers personal data to any other organisation;

P2D Copyright Collaborations Percent COD

#### Enforcement of the PDPA

- The Act is enforced by the Personal Oats Protection Commission (POPC"). The Commission will investigate and take action if breaches accur.
- 2. For breaches of the personal data protection rules, the Commission may-
- a) tase warnings
- k) issue directions to ensure compliance (e.g. to stop callecting, using or disclosing personal data, to desiron personal data, etc.);
- c) impose a financial penality of up to \$1 million per breach.
- Individuals who suffer loss or damage directly as a result of a contravention of the PDPA may also commence civil proceedings against the organisation.



#### 2. Purpose timitation

1. Consent

P2D

The 9 Obligations Imposed by the PDPA



#### The Personal Data Protection Act ("PDPA")

The PDPA was passed by Parliament in 2013 and covers 2 areas -

- 1. Established the National "De Nat Call" Registry since Literary 2014
- facts out the Personal Data Protection Rules governing the safection, use, disclosure and care of an individual's personal data by organizations since 2.8/e 2004

factay, vast amounts of genuenal data are being used and transferred by organisations for a variety of reasons (marketing, research, etc). Growing concerns from individuals about how their personal data is being used.

The law certs to shife a balance between right of individuals to prevent misure of their personal data and the need of organisations to use personal data for legitimate and researable purposes.

PED

## Personal Data Protection Act ("PDPA")

#### Proposals to amend data protection law include stiffer fines PUBLISHED THE STRAITS TIMES: MAY 15, 2020, 5:00 AM SGT

In case of a data breach, organizations may soon be slapped with fines of up to 10 per cent of their annual gross turnover or \$1 million, whichever is higher, if proposed amendments to the Personal Data Protection Act go through.

Currently, companies are liable for a fine of up to \$1 million, but the authorities are seeking stronger deterrents for data breaches.

The stricter penalty will be aligned with the law in other jurisdictions, such as the European Union, the Ministry of Communications and Information and privacy watchdog Personal Data Protection Commission (PDPC) said yesterday in their fourth public consultation exercise to amend the Act.

### MONTHLY GROSS WAGES OF SELECTED OCCUPATIONS IN MANUFACTURING, JUNE 2016

Occurrentiane	Gross Wage	
Occupations	25th Percentile (\$)	75th Percentile (\$)
Chief Operating Officer/General Manager	8,357	18,810
Managing Director/Chief Executive Officer	5,000	15,000
Manufacturing Plant/Production Manager	5,477	10,100
Premises and Facilities Maintenance Manager (including Building Security Manager)	5,721	10,232
Quality Assurance Manager	5,850	10,900
Research and Development Manager	6,915	11,815
Technical/Engineering Services Manager (e.g. Shipyard Manager)	6,341	11,067
Chemical Engineer	4,050	6,239
Chemist	4,095	6,272
Electrical Engineer	3,987	6,156
Industrial and Production Engineer	4,200	6,350
Mechanical Engineer	4,070	6,068
Assistant Manufacturing Engineer	3,306	5,351
Chemical Engineering Technician	3,028	5,466
Chemistry Technician	2,519	3,985
Electrical Engineering Technician	2,878	5,000
Food Science Technician	2,308	3,778
Manufacturing Engineering Technician	2,859	4,320
Mechanical Engineering Technician	3,001	4,425
Chemical Processing and Chemical Products Plant and Machine Operator	2,440	4,150

# **Career options in the Industry:** Food Manufacturing







948 establishments

Employs about 30,000 workers









Total export output o \$6 Billion in 2016

\$10.1 Billion in total output

Contributed \$3.8 Billion in value-added

## **SKILLS IN DEMAND**



## Food Science and Technology Skills

- Active and Smart Packaging
- Food Product Improvement
- New Product Introduction



## International Business Development Skills

- E-Commerce Campaign Management
- International Marketing Programmes Management
- New Export Market Entry Strategy Formulation



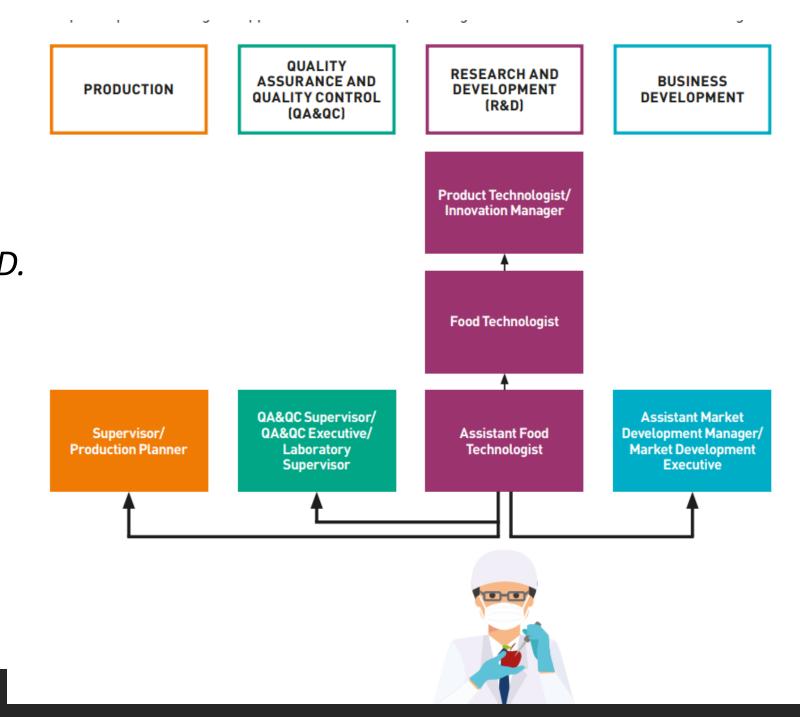
## Automated Manufacturing Skills

- Advanced Processing Technology
- Green Manufacturing Implementation
- Data Synthesis



## Management Skills

- Innovation Management
- Strategy Development



What can I work as . . .?→ Production. QAQC. R&D.

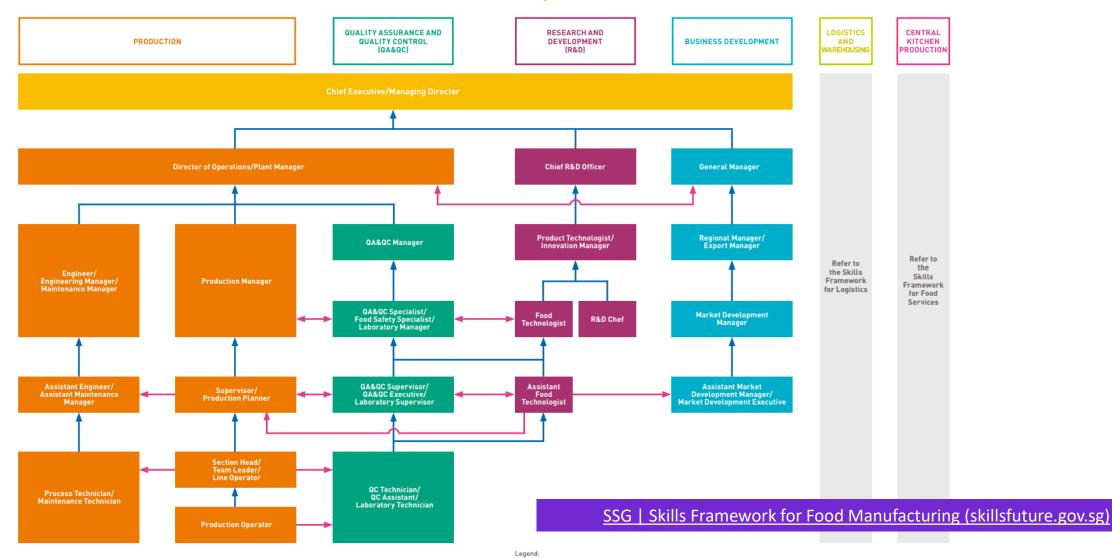
S&M/Biz Dev't

### MONTHLY GROSS WAGES OF SELECTED OCCUPATIONS IN MANUFACTURING, JUNE 2016

Occurrentieren	Gross Wage	
Occupations	25th Percentile (\$)	75th Percentile (\$)
Manufacturing labourer and related worker	1,112	1,808
Supervisor/General foreman (food processing, woodworking, garment, leather and related trades)	2,563	3,652
Stationary plant and machine supervisor/General foreman	2,900	4,265
Manufacturing plant/Production manager	5,477	10,100
Manufacturing engineering technician	2,859	4,320
Assistant manufacturing engineer	3,306	5,351
Industrial and production engineer	4,200	6,350
Quality checker and tester	1,452	2,283
Quality assurance manager	5,850	10,900
Food science technician	2,308	3,778
Food and drink technologist	3,700	8,128
Research and development manager	6,915	11,815
Business development executive	2,990	4,950
Business development manager	5,900	12,106
Technical sales professional	3,500	5,270
Chief operating officer/General manager	8,357	18,810
Managing director/Chief executive officer	5,000	15,000

#### SKILLS FRAMEWORK FOR FOOD MANUFACTURING

### **Career Pathways**



--> Vertical progression --> Lateral progression

The Career Map serves as a reference to reflect the available job roles and possible career pathways in the food manufacturing sector, which may vary depending on company's structure and business context. The career progression pathways would depend on individual aspiration, performance, capability, experience and company needs.





Types of documents written by medical writer

- Research proposals
- Investigator brochures
- Informed consent documents
- · Clinical study reports
- Clinical trial protocols
- Package inserts
- Patient information leaflets

# Career options in the Industry (Others)

## So many options...

Which is "best" for me...?



## Which is "Best" for me...?

## Know "**yourself**" & your career goals, aspiration, ...

•

### • KNOW YOURSELF:

- Like to meet people?
- "Thick" skin? Shy?
- Freedom or "9 to 5"? Working weekends? On call...?
- Physical pressure vs mental pressure, sales pressure...?
- Like to travel? "Homely" type?
- Status conscious: job, company?
- Monetary reward vs job nature?
- Etc, etc, ...

### JOB & COMPANY:

- Job (clinical) knowledge
- Focus vs multi-tasks
- Clinical environment vs retail environment vs office environment vs "field" works?
- Career development / opportunities
- Travels (esply if regional role)
- Local vs MNC?
- "Big" vs "small" companies?
- Etc, etc, ...

## What are the attributes of a "Ideal" (good) employee?

### • PERSONAL QUALITIES (examples):

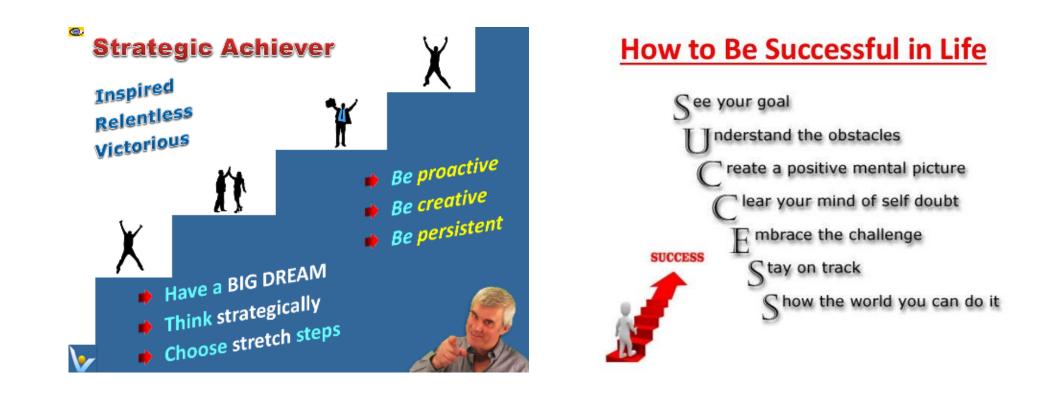
- 1. Communication skills
- 2. Decisiveness
- 3. Dependability
- 4. Independence
- 5. Creativity
- 6. Human relations skills
- 7. Teamwork
- 8. Initiative
- 9. Adherence to policy
- 10. Deportment

## • **PERFORMANCE** (examples):

- 1. Job knowledge
- 2. Job scope achievement
- 3. Productivity
- 4. Effectiveness & accuracy
- 5. Problems analysis and judgement
- 6. Availability
- 7. Organizing ability
- 8. Administrative skills
- 9. Maintenance and operation of equipment
- 10. Responsibility

### "PTCA" Qualities:

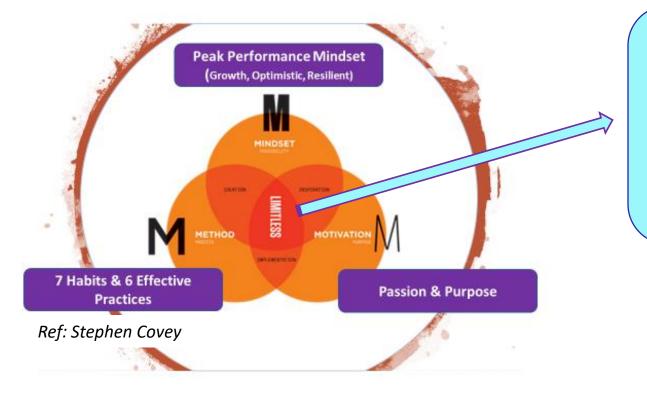
Proactiveness/Positiveness. Teamwork/Transparency. Communication/Commitment. Action-oriented/Attitude



## Whatever you do . . .

Take home message . . .

# **1. Have the "3Ms" as your "Limitless Possibilities"**

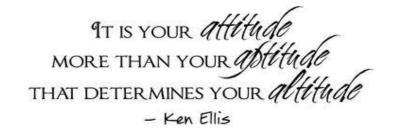


<u>Mindset</u>: Peak Performance Mindset <u>Motivation</u>: Passion & Purpose <u>Methods</u>: 7 Habits of Highly Effective People

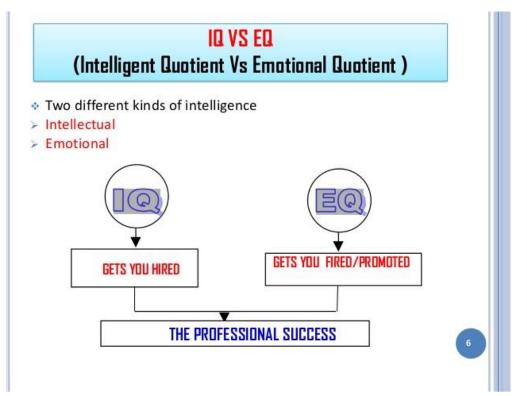
### The Limitless Possibilities in You (Your Personality)

Ref: Limitless, Jim Kwik

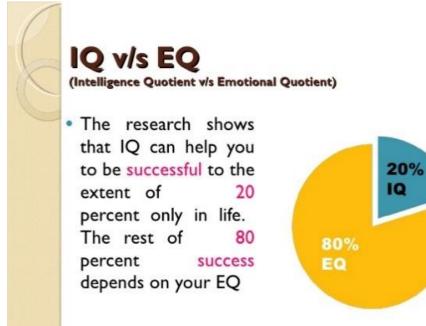
# **2.** Have **Right Attitude** in whatever you do . . .







# 3. Build up your <mark>EQ</mark> . . .



IT IS NOT THE STRONGEST OF THE SPECIES THAT SURVIVE, NOR THE MOST INTELLIGENT, BUT THE ONE MOST RESPONSIVE TO CHANGE.

- CHARLES DARWIN

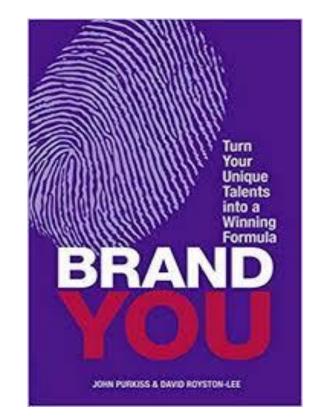
# 4. Build up your Networks & Networking Skills ...

# 5. Build up your "Brand" through Strong "Culture" ...

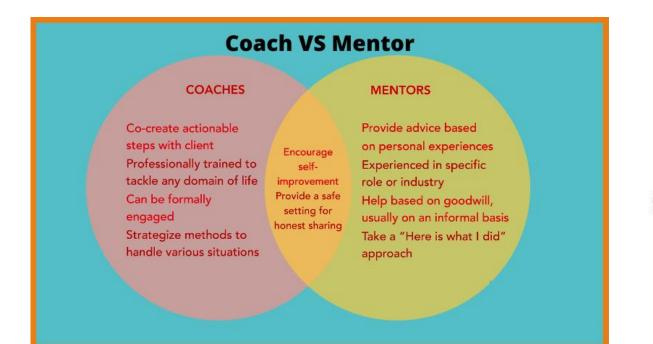
## Skills

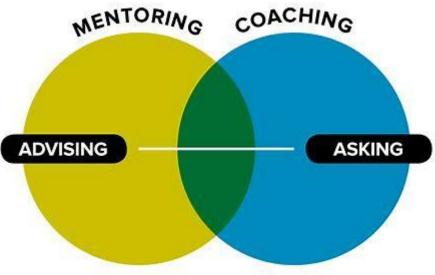
- · Networking skills
  - Communication skills
  - Listening skills
  - Questionning skills
  - Meeting skills
  - Planning skills





# Get Yourself a Good <mark>Mentor</mark> or a Career Coach . . .





## **Career Prospects**

: Commercial (S&M, RA, MSL, ...)
: Manufacturing (Engineers, QA, R&D, ...)
: Institutions (eg. Hospital, Gov't agencies)
: Others, including entrepreneurship and postgraduate studies

#### **BANKING, FINANCE & LEGAL**

Citibank, Bank of America Merill Lynch, Deloitte & Touche E.g. Risk Consultant, Relationship Manager, Management Associate, Patent Officer, etc

ENTREPRENEUR

Bio3D Technologies, TCM Trend E.g. Owner of Bio 3D Printing Company, Owner & Physician of TCM Clinic.

#### POSTGRADUATE STUDIES

Cambridge University, DUKE NUS, NTU, Ross University E.g. Medical Student, Veterinary Science Student, M.Sc & Ph.D Student.

#### HEALTHCARE

Tan Tock Seng Hospital, KK Women's & Children's Hospital, Jurong Health, Singapore General Hospital, Eu Yang Sang, Kin Tech Tong Clinic

E.g. Clinical researcher, Management Associate, Hospital Executive, Healthcare Operations Executive, Pharmaceutical Sales, Physician, Acupuncturist, etc

#### **BIOMEDICAL & PHARMACEUTICAL**

Lonza Biologics, Johnson & Johnson, Norvatis Bio Pharma Operations, GSK, Amgen E.g. Process Engineer, Manufacturing Biotechnologist, QA Specialist, Clinical Researcher, R&D Officer, Validation Engineer, etc

#### **PUBLIC SECTOR**

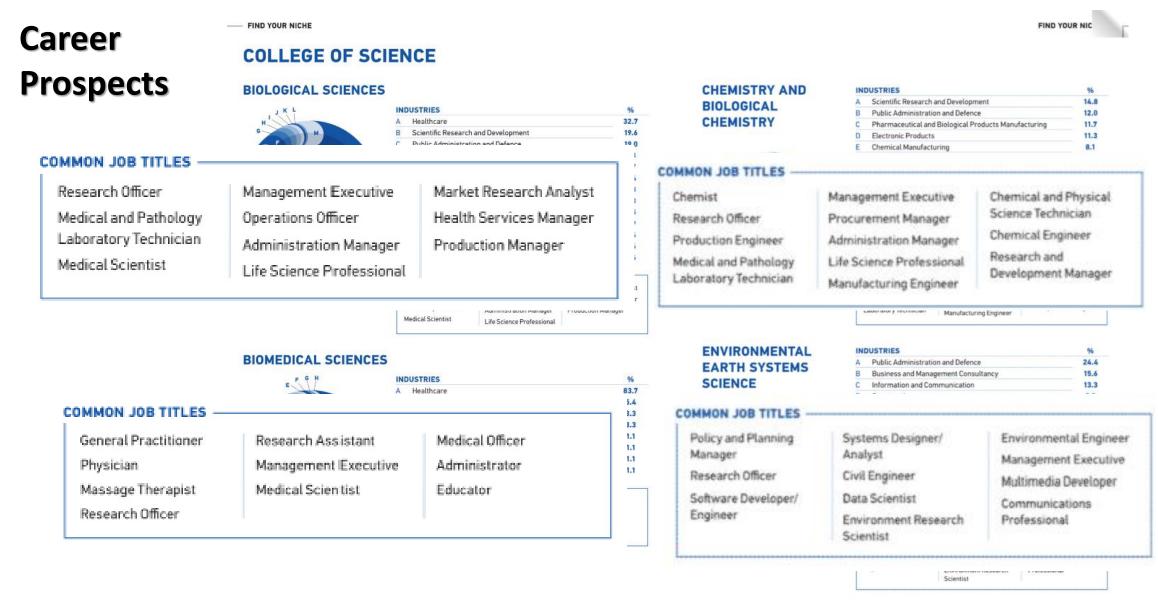
Ministry of Health, A\*STAR, National Environmental Agency, Genome Institute of Singapore, Institute of Molecular & Cell Biology, Ministry of Education, Singapore Police Force, National Environment Agency, KK Women's & Children's Hospital, SingHealth

E.g. Research Officer, Health Policy Analyst, Forensic Specialist, Project Officer, Laboratory Manager, Gynaecologist, etc

#### OTHERS

E.g. Scientific Writer, Communication Account Executive, Scientific Journalist, Marketing Associate, Events, Service Executive, etc

Ref: Career Prospects and Development | School of Biological Sciences | NTU Singapore



5<u>4</u>



# <u>SSG | Skills Framework</u> (skillsfuture.gov.sg)

ACCOUNTANCY	AIR TRANSPORT	AEROSPACE	BIOPHARMACEUTICALS MANUFACTURING
Get Template Learn More	Get Template Learn More	Get Template Learn More	Get Template Learn More
BUILT ENVIRONMENT	DESIGN	EARLY CHILDHOOD	ELECTRONICS
Get Template Learn More	Get Template Learn More	Get Template Learn More	Get Template Learn More
ENERGY AND CHEMICALS	ENERGY AND POWER	ENGINEERING SERVICES	ENVIRONMENTAL SERVICES
Get Template Learn More	Get Template Learn More	Get Template Learn More	Get Template Learn More
FINANCIAL SERVICES	FOOD MANUFACTURING	FOOD SERVICES	HEALTHCARE
Get Template Learn More	Get Template Learn More	Get Template Learn More	Get Template Learn More
HOTEL & ACCOMMODATION SERVICES	HUMAN RESOURCE	INFOCOMM TECHNOLOGY	INTELLECTUAL PROPERTY
Get Template Learn More	Get Template Learn More	Get Template Learn More	Get Template Learn More
LANDSCAPE	LOGISTICS	MARINE AND OFFSHORE	MEDIA
Get Template Learn More	Get Template Learn More	Get Template Learn More	Get Template Learn More
PRECISION ENGINEERING	PUBLIC TRANSPORT	RETAIL	SEA TRANSPORT
Get Template Learn More	Get Template Learn More	Get Template Learn More	Get Template Learn More
SECURITY	SOCIAL SERVICE	TOURISM	TRAINING AND ADULT EDUCATION
Get Template Learn More	Get Template Learn More	Get Template Learn More	Get Template Learn More
WHOLESALE TRADE	WORKPLACE SAFETY AND Health		
Get Template Learn More	Get Template Learn More		

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## FOR MORE INFORMATION...



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LinkedIn/in/ykpng	Q

