



OCCUPATION INSIGHTS

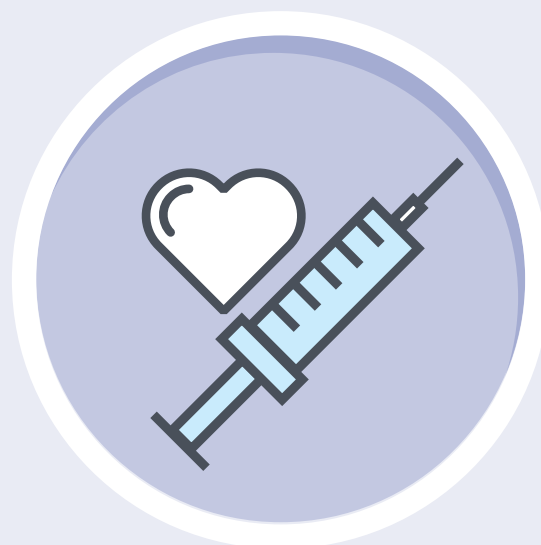
This self-help resource provides you with the information to make better informed decisions to plan your career.

Let's Start

SELECT AN INDUSTRY



**BIOPHARMACEUTICALS
MANUFACTURING**



HEALTHCARE



**HOTEL AND
ACCOMMODATION**



INFOCOMM



Feedback Form



BIOPHARMACEUTICALS MANUFACTURING

OVERVIEW

Many leading biopharmaceutical companies have chosen to make Singapore their global manufacturing base, attracted by the excellent physical and regulatory infrastructure, global connectivity and skilled manpower available.

To date, there are more than 50 commercial-scale multi-purpose manufacturing facilities operating in Singapore with the capability to manufacture a wide range of active pharmaceutical ingredients (APIs), biologics and nutritionals.

BEING A PART OF THE BIOPHARMACEUTICALS MANUFACTURING INDUSTRY

To join the sector, you should have a positive attitude and willingness to learn, and find value in transitioning from theoretical learning to practical applications. You should also have interest in using technology and equipment to produce tangible product which is highly valued by customers and motivated to do continuous process improvements.

Click on the following occupations below to find out how you can join the biopharmaceuticals manufacturing Industry.



AUTOMATION ENGINEER



**MANUFACTURING
OPERATIONS ASSOCIATE**



MICROBIOLOGIST



**QUALITY ASSURANCE
SPECIALIST**



**QUALITY CONTROL
TECHNICIAN/ANALYST**



BIOPHARMACEUTICALS
MANUFACTURING

HEALTHCARE

HOTEL AND
ACCOMMODATION

INFOCOMM



BIOPHARMACEUTICALS MANUFACTURING

• Click on the icons to get more information on this occupation.

MY ESTIMATED SALARY
\$3,000–\$3,500*

WHAT I DO

- Support manufacturing, utilities and facilities operations
- Oversee and maintain plant's automation and control systems
- Oversee support and execution of automation qualification
- Oversee resolution of all automation related issues
- Develop Standard Operating Procedures
- Implement maintenance programmes for automation and control systems
- Manage vendor service contracts
- Prepare operation and maintenance budget

HOW I QUALIFY

Degree     in one of the following:

- **Control & Instrumentation**
- **Electrical Engineering**
- **Chemical Engineering**
- **IT Engineering**

OR equivalent

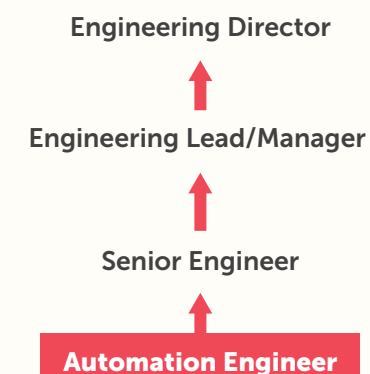
Other requirements

- Working experience in control/instrumentation in the pharmaceutical, food, petrochemical, chemical plant or automation industry
- Knowledge of automation and control systems such as Programmable Logic Controller (PLC) and Siemens S7 Series



AUTOMATION ENGINEER



MY POSSIBLE PROGRESSION



MY WORKING CONDITIONS

- Work shifts
- Working location typically in Jurong, Tuas OR Woodlands
- Working in Regulated Current Good Manufacturing Practice (cGMP) environment

Recommended WSQ courses for me

- WSQ Higher Certificate in Process Technology (Pharmaceuticals/Biologics Manufacturing) 
- WSQ modules under the Process WSQ framework 

VIEW OTHER
OCCUPATIONS



BIOPHARMACEUTICALS
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BIOPHARMACEUTICALS MANUFACTURING

• Click on the icons to get more information on this occupation.

MY ESTIMATED SALARY
\$3,000–\$3,500*



WHAT I DO

- Oversee and ensure the efficient operation of the plant's manufacturing activities
- Ensure compliance with the organisation's designated policies and procedures
- Prepare, clean and sterilise small equipment and conduct troubleshooting on the equipment
- Manage process control, perform accurate data entry and provide documentation in accordance to approved manufacturing formulae
- Participate in process improvement initiatives to seek continuous improvements and productivity gains



HOW I QUALIFY

Degree     in one of the following:

- Chemistry
- Life Sciences
- Engineering



MANUFACTURING OPERATIONS ASSOCIATE





MY WORKING CONDITIONS

- Work shifts
- Working location typically in Jurong, Tuas OR Woodlands
- Working in Regulated Current Good Manufacturing Practice (cGMP) environment



Recommended WSQ courses for me

- WSQ Higher Certificate in Process Technology (Biologics Manufacturing) 
- Process WSQ modules on GMP 

MY POSSIBLE PROGRESSION



**VIEW OTHER
OCCUPATIONS**





BIOPHARMACEUTICALS
MANUFACTURING

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BIOPHARMACEUTICALS MANUFACTURING

• Click on the icons to get more information on this occupation.

MY ESTIMATED SALARY
\$2,200–\$3,500*

WHAT I DO

Operate in a microbiology laboratory with the following activities:

- Sample collection and microbiological testing on raw materials
- Finished products and in-process samples and products
- Identification of test isolates, pathogenic bacterial screening
- Media and reagent preparation
- Handle instrument calibration, systematic documentation and housekeeping according to the Good Laboratory Practice (GLP) and current Good Manufacturing Practice(cGMP)

HOW I QUALIFY

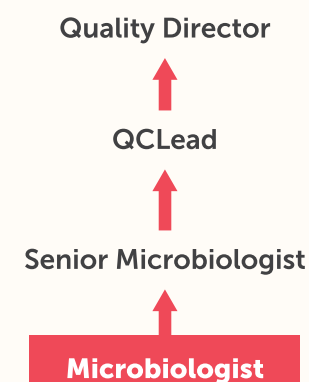
Diploma     
or Degree      in one of the following:

- Chemistry
- Microbiology
- Food Science



MICROBIOLOGIST



MY POSSIBLE PROGRESSION



MY WORKING CONDITIONS

- Work shifts
- Working location typically in Jurong, Tuas OR Woodlands
- Working in Regulated Current Good Manufacturing Practice (cGMP) environment

Recommended WSQ courses for me

- WSQ Higher Certificate in Process Technology (Biologics Manufacturing) 
- Process WSQ modules on GMP 

VIEW OTHER
OCCUPATIONS



BIOPHARMACEUTICALS
MANUFACTURING

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BIOPHARMACEUTICALS MANUFACTURING

• Click on the icons to get more information on this occupation.

MY ESTIMATED SALARY
\$2,700–\$3,500*



WHAT I DO

- Implement Quality Management Systems and ensure manufacturing operations comply with Good Manufacturing Practice (GMP) according to regulatory and corporate requirements
- Handle deviation management, change control and customer complaints
- Conduct quality management and product quality review
- Develop and write related procedures
- Participate in cross-functional investigations and ensure timely closure of investigation report
- Support compliance audits and training activities



HOW I QUALIFY

Degree     in one of the following:

- **Pharmaceutical Sciences**
- **Life Sciences**
- **Biology**
- **Biotechnology**
- **Chemistry**
- **Chemical Engineering,**

OR equivalent

Other requirements

- Working experience in quality assurance for the pharmaceutical or biotechnology industries
- Familiar with GMP/GLP compliance, operations



**VIEW OTHER
OCCUPATIONS**



QUALITY ASSURANCE SPECIALIST





MY WORKING CONDITIONS

- Work shifts
- Working location typically in Jurong, Tuas OR Woodlands
- Good Manufacturing Practice/Good Laboratory Practice (GMP/GLP)



Recommended WSQ courses for me

- WSQ Higher Certificate in Process Technology (Pharmaceuticals/Biologics Manufacturing) 
- WSQ modules under the Process WSQ framework 

MY POSSIBLE PROGRESSION





BIOPHARMACEUTICALS
MANUFACTURING

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BIOPHARMACEUTICALS MANUFACTURING


• Click on the icons to get more information on this occupation.

MY ESTIMATED SALARY
\$1,700–\$3,000*

WHAT I DO

- Ensure quality products are produced within a controlled environment
- Engage in different testing methodologies – from molecular biology to latest analytical chemistry techniques
- Carry out annual and quarterly physical inspection
- Staging Quality Control materials and/or production of raw materials, as well as environmental and raw material sampling in accordance with GMP and company procedures
- Oversee necessary documentation e.g. logbooks, test requests preparation and sample distribution

HOW I QUALIFY

Diploma     
or **Degree**    
in one of the following:

- **Chemistry**
- **Microbiology**
- **Food Science**
- **Life Sciences**

OR equivalent

Other requirements

- Working experience in a testing laboratory environment
- Good knowledge of plant equipment and the right environment for optimal equipment performance
- Familiar with GMP and laboratory



QUALITY CONTROL TECHNICIAN/ANALYST

MY POSSIBLE PROGRESSION

Supervisor/Supintendent or Quality Director

Quality Control Leader



Senior Quality Control Technician/Analyst

**Quality Control Technician (Diploma)/
Quality Control Analyst (Degree)**

MY WORKING CONDITIONS

- Work shifts
- Working location typically in Jurong, Tuas OR Woodlands
- Working in Regulated Current Good Manufacturing Practice (cGMP) environment

Recommended WSQ courses for me

- WSQ Higher Certificate in Process Technology (Pharmaceuticals/Biologics Manufacturing) 
- WSQ modules under the Process WSQ framework 

[VIEW OTHER
OCCUPATIONS](#)



BIOPHARMACEUTICALS
MANUFACTURING

HEALTHCARE

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HEALTHCARE

OVERVIEW

With the growing aging population in Singapore, demand for quality healthcare will continue to increase. There are planned major investments in healthcare infrastructure including the building of five new hospitals from now till 2020. With the expanded capacity, there will also be continuous growth in healthcare manpower capabilities, innovation and productivity.

BEING A PART OF THE HEALTHCARE INDUSTRY

As part of the team of professionals to provide safe and smooth delivery of patient care, you should have a strong passion to care for others, with essential strength like good teamwork, communication skills and attention to details.

Click on the following occupations below to find out how you can join this vibrant and growing healthcare family, and obtain fulfilment in helping save lives.



HEALTHCARE ASSISTANT



PHYSIOTHERAPIST



RADIOGRAPHER



STAFF NURSE



THERAPY ASSISTANT



BIOPHARMACEUTICALS
MANUFACTURING

HEALTHCARE

HOTEL AND
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HEALTHCARE

• Click on the icons to get more information on this occupation.

MY ESTIMATED SALARY
\$1,000–\$2,100*



WHAT I DO

- Measure and record patients' vital signs
- Perform patient care duties
- Lift, transfer and position patients



HOW I QUALIFY

Secondary School Education

OR

**WPLN Level 3 Proficiency Level for
Literacy and Numeracy**

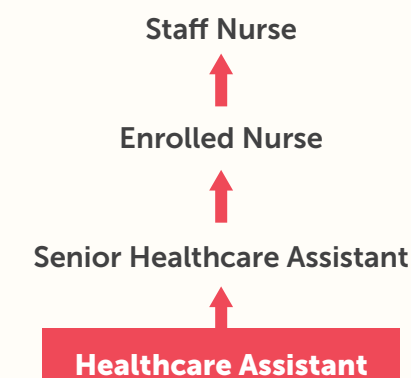
Other requirements

Fit, free from disability and medical conditions



HEALTHCARE ASSISTANT

MY POSSIBLE PROGRESSION



MY WORKING CONDITIONS

- Work shifts, weekends and public holidays
- Being on my feet for long period
- Work in close contact with patients; encounter body contact/body fluids

Recommended WSQ courses for me
WSQ Higher Certificate in Healthcare
Support (Nursing Care)



**VIEW OTHER
OCCUPATIONS**





BIOPHARMACEUTICALS
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HEALTHCARE

• Click on the icons to get more information on this occupation.

MY ESTIMATED SALARY
\$3,000–\$4,200*

WHAT I DO

- Assess, prevent, treat movement disorders caused by physical disabilities, trauma or illness
- Help patients relieve pain, improve muscle strength, joint range and mobility
- Increase patients' exercise movement tolerance to help improve their cardiorespiratory fitness and function
- Help patients recover original physical condition using various techniques such as therapeutic exercise and electrophysical agents (e.g. ultrasonic therapy)
- Work with doctors, nurses and patients' families to improve patients' mobility

HOW I QUALIFY

Diploma in Physiotherapy

by Nanyang Polytechnic

OR

Bachelor in Science (Physiotherapy)

by Singapore Institute of Technology and Trinity College Dublin

(As recognised by Allied Health Professional Council)

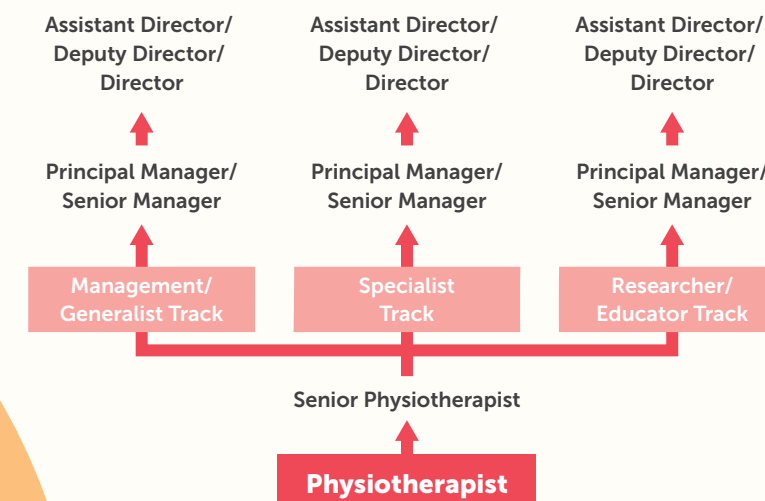
Other requirements

Fit, free from disability and medical conditions



PHYSIOTHERAPIST

MY POSSIBLE PROGRESSION



MY WORKING CONDITIONS

- Work shifts, weekends and public holidays
- Being on my feet for long period
- Work in close contact with patients; encounter body contact/body fluids



VIEW OTHER
OCCUPATIONS





BIOPHARMACEUTICALS
MANUFACTURING

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WDA singapore
workforce
development
agency



HEALTHCARE

• Click on the icons to get more information on this occupation.

MY ESTIMATED SALARY

\$2,900–\$4,800*

WHAT I DO

- Use sophisticated medical equipment and a range of techniques to produce radiographic images to aid healthcare team in diagnosing patient's illness or injury
- Manage the technology to produce, display, manipulate, transmit and archive radiographic images
- Use high-end systems to produce complex multi-planar and 3D reconstructions
- Work in specialised areas utilising state-of-the-art equipment such as Computed Tomography (CT), Ultrasound and Nuclear Medicine
- Ensure minimal radiation dose and provide care and emotional support to patients during imaging procedures

HOW I QUALIFY

Diploma in Diagnostic Radiography

by Nanyang Polytechnic

OR

Bachelor in Science

(Diagnostic Radiography)

by Singapore Institute of Technology and Trinity College Dublin

(As recognised by Allied Health Professional Council)

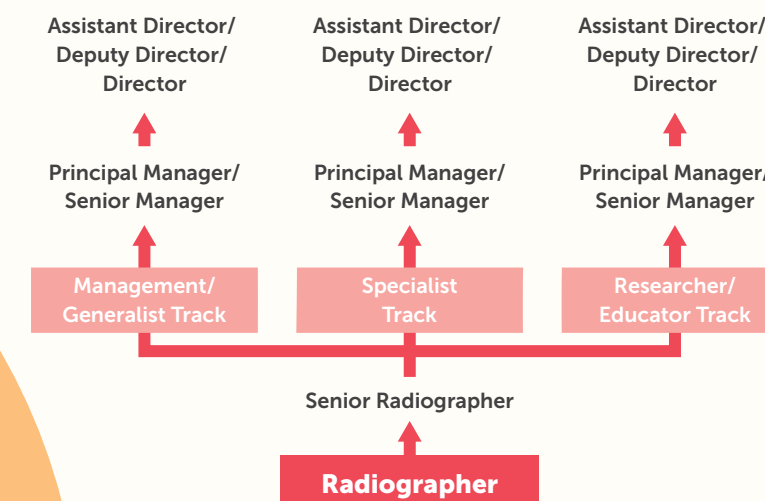
Other requirements

Fit, free from disability and medical conditions



RADIOGRAPHER

MY POSSIBLE PROGRESSION



MY WORKING CONDITIONS

- Work shifts, weekends and public holidays
- Being on my feet for long period
- Work in close contact with patients; encounter body contact/body fluids



VIEW OTHER
OCCUPATIONS





BIOPHARMACEUTICALS
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HEALTHCARE

• Click on the icons to get more information on this occupation.

MY ESTIMATED SALARY
\$2,500–\$4,000*



WHAT I DO

- Assess patients' physical and mental health
- Perform clinical procedures
- Help patients improve or maintain health
- Educate patients and their families on health matters



HOW I QUALIFY

Diploma in Nursing

OR

Degree in Nursing

(As recognised by Singapore Nursing Board)

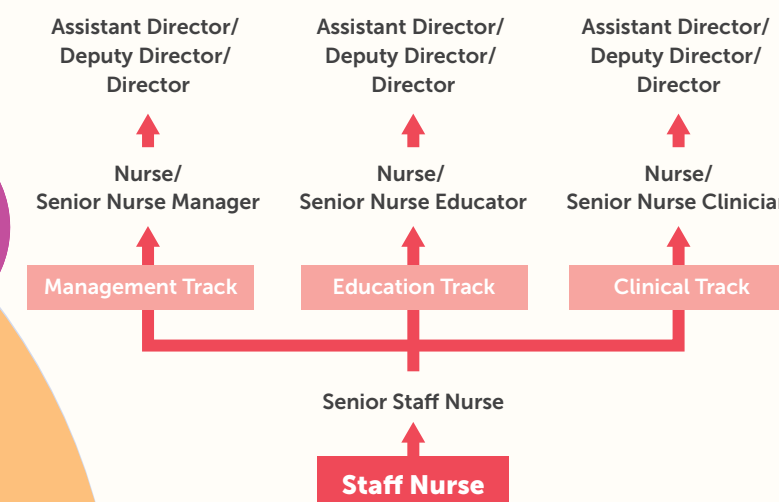
Other Requirements

Fit, free from disability and medical conditions



STAFF NURSE

MY POSSIBLE PROGRESSION



MY WORKING CONDITIONS

- Work shifts, weekends and public holidays
- Being on my feet for long period
- Work in close contact with patients; encounter body contact/body fluids



**VIEW OTHER
OCCUPATIONS**





BIOPHARMACEUTICALS
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HEALTHCARE

• Click on the icons to get more information on this occupation.

MY ESTIMATED SALARY
\$1,300–\$2,000*



WHAT I DO

- Communicate and engage patients with speech/communication dysfunction
- Assist therapists in delivering treatments
- Assist with therapy and patient procedures for specific clients
- Conduct therapy programmes and assist in community inclusion programmes under therapist's instructions
- Assist in guiding patients through safe and effective feeding strategies
- Assist in providing services for special needs patients

HOW I QUALIFY

Secondary School Education

OR

WPLN Level 3 Proficiency Level for Literacy and Numeracy

Other requirements

Fit, free from disability and medical conditions



THERAPY ASSISTANT



Senior Therapy Assistant



Therapy Assistant



MY WORKING CONDITIONS

- Work shifts, weekends and public holidays
- Being on my feet for long period
- Work in close contact with patients; encounter body contact/body fluids

Recommended WSQ courses for me
WSQ Higher Certificate in Healthcare Support (Therapy Support)



**VIEW OTHER
OCCUPATIONS**





BIOPHARMACEUTICALS
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HOTEL AND ACCOMMODATION

OVERVIEW

Singapore has seen positive growth in the tourism sector, with growing Visitor Arrivals (VA) and Tourism Receipts (TR) over the past five years. While growth is expected to moderate in the medium term, tourism will continue to be a key contributor to Singapore's economy.

With the Tourism sector expected to grow steadily, we can expect to see new hotels emerging to cater to the varied needs of tourists from around the world.

BEING A PART OF THE HOTEL AND ACCOMMODATION INDUSTRY

The hotel and accommodation industry is a key employer in the tourism sector.

Meeting the accommodation needs of visitors require the intricate co-ordination between many departments and functions across the hotel, ranging from housekeeping to security, Food and Beverage and front office.

You will play an important part in helping your team to deliver excellent service and to create outstanding experiences for hotel guests. The sector will definitely offer you great opportunities for a varied and fulfilling career.

Click on the following occupations to find out how you can join the hotel and accommodation industry.



**CATERING
SALES EXECUTIVE**



CONCIERGE



**GUEST SERVICES
EXECUTIVE**



**RESERVATIONS AGENT
(OFFICER)**



**MARKETING COMMUNICATIONS
EXECUTIVE**



BIOPHARMACEUTICALS
MANUFACTURING

HEALTHCARE

HOTEL AND
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HOTEL AND ACCOMMODATION

• Click on the icons to get more information on this occupation.

MY ESTIMATED SALARY
\$1,600 - \$2,000*

WHAT I DO

- Attend to sales enquiries and requests for banquet services
- Handle banquet sales order including gathering of guest information, determine event set up, timeline, logistical needs, special requests by guests, menu selection, dietary requirements
- Ensure adherence to service quality expectations and standards
- Ensure compliance to all safety and security policies and procedures

HOW I QUALIFY

NITEC or GCE "N" or "O" level and above

Other requirements

- Good communication and interpersonal skills;

CATERING SALES EXECUTIVE

Assistant Director of Catering

Catering Sales Manager

Assistant Catering Sales Manager

Catering Sales Executive

MY WORKING CONDITIONS

- Expected to be well groomed and properly attired according to organisational standards
- Expected to engage, meet and connect with hotel guests to enrich guests experience
- Willing to work non-standard hours including weekends and public holidays
- Professional behaviour and conduct expected at all times

Recommended WSQ Courses for me

- WSQ Certificate in Hotel & Accommodation Services

VIEW OTHER
OCCUPATIONS



BIOPHARMACEUTICALS
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HOTEL AND ACCOMMODATION

• Click on the icons to get more information on this occupation.

MY ESTIMATED SALARY
\$1,500 - \$2,200*

WHAT I DO

- Assist guests to make their travel plans and arrangements, such as sharing on local authentic experiences, or providing information in the areas of shopping, dining, and nightlife
- Provide personalised services to guests including making reservations for dining, spa treatments, tickets to special events and travel arrangements
- Provide business services to guests, including sending and receiving faxes, photocopying and shipping of documents and packages
- Arrange for interpreters or translators when required by guests
- Receive, store, or deliver luggage or mail

HOW I QUALIFY

**NITEC or GCE "N" or "O" level
and above**

Other requirements

- Good communication and interpersonal skills



CONCIERGE

CONCIERGE



MY POSSIBLE PROGRESSION

Front Office Manager

Assistant Front Office Manager

Duty Manager

Concierge

MY WORKING CONDITIONS

- Expected to be well groomed and properly attired according to organisational standards
- Expected to engage, meet and connect with hotel guests to enrich guests experience
- Willing to work non-standard hours including shifts, weekends and public holidays
- Professional behaviour and conduct expected at all times

Recommended WSQ Courses for me

- WSQ Certificate in Hotel & Accommodation Services



**VIEW OTHER
OCCUPATIONS**





BIOPHARMACEUTICALS
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HOTEL AND ACCOMMODATION

• Click on the icons to get more information on this occupation.

MY ESTIMATED SALARY
\$1,600 - \$2,200*



WHAT I DO

- Receive and welcome visitors, guests and clients
- Attend to requests for information, assistance and scheduling of appointments
- Handle front office duty including check-in and check-out of guests
- Manage feedback from guests to continually improve hotel service standards

HOW I QUALIFY

**NITEC or GCE "N" or "O" level
and above**

Other requirements

- Good communication and interpersonal skills;
- Customer-oriented with a pleasant disposition
- Knowledge of Opera System or other Property Management System would be advantageous

GUEST SERVICES EXECUTIVE

CHECK IN/CHECKOUT



MY WORKING CONDITIONS

- Expected to be well groomed and properly attired according to organisational standards
- Expected to engage, meet and connect with hotel guests to enrich guests experience
- Willing to work non-standard hours including shifts, weekends and public holidays
- Professional behaviour and conduct expected at all times

Recommended WSQ Courses for me

- WSQ Certificate in Hotel & Accommodation Services

MY POSSIBLE PROGRESSION



**VIEW OTHER
OCCUPATIONS**



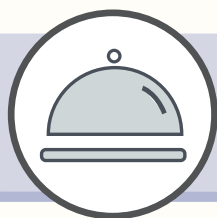


BIOPHARMACEUTICALS
MANUFACTURING

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HOTEL AND ACCOMMODATION

• Click on the icons to get more information on this occupation.

MY ESTIMATED SALARY
\$1,700 - \$2,200*

WHAT I DO

- Handle reservation order by gathering guest information, documentation and any other special service request
- Ensure accurate and timely information is recorded in the hotel management system
- Ensure reservation confirmations are promptly delivered to guest
- Coordinate guest requirements across different departments

HOW I QUALIFY

**NITEC or GCE "N" or "O" level
and above**

Other requirements

- Possess excellent interpersonal and communication skills in customer service

RESERVATIONS AGENT (OFFICER)

MY POSSIBLE PROGRESSION

Revenue Manager/ Reservations Manager

Assistant Revenue Manager/
Assistant Reservations Manager

Revenue Analyst/Reservations Supervisor

Reservations Executive

Reservations Agent (Officer)

MY WORKING CONDITIONS

- Expected to work in a fast paced environment
- Professional behaviour and conduct expected at all times
- Typically work in call centres

Recommended WSQ Courses for me

- WSQ Certificate in Hotel & Accommodation Services

VIEW OTHER
OCCUPATIONS



HOTEL AND ACCOMMODATION

• Click on the icons to get more information on this occupation.

MY ESTIMATED SALARY
\$1,900 - \$2,500*



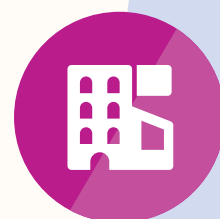
MY POSSIBLE PROGRESSION



MARKETING COMMUNICATIONS EXECUTIVE

WHAT I DO

- Responsible for formulating plans and strategies of all hotel marketing and communication activities
- Develop, manage and maintain a comprehensive marketing materials/collaterals and assemble information packages for promotional events, tours and conferences
- Updating of hotel's website and electronic media regularly
- Maintain active channel of communications in media queries, arranging for media briefings, supporting media relations effort, monitoring media coverage
- Monitor, track and respond to reviews and/or questions on social media platforms and compile monthly media report
- Develop, manage and maintain a comprehensive media and marketing contact management system



MY WORKING CONDITIONS

- Occasional evening or weekend work subject to exigencies in organisational requirements
- Expected to work in a fast paced environment
- Professional behaviour and conduct expected at all times

HOW I QUALIFY

Diploma      
or Degree     in Marketing Communications or Marketing or equivalent

Other requirements

- Possess good communication and interpersonal skills

Recommended WSQ Courses for me

- WSQ Certificate in Hotel & Accommodation Services



VIEW OTHER
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BIOPHARMACEUTICALS
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INFOCOMM

OVERVIEW

Infocomm is a key enabler for every industry, contributing to Singapore's economic and social growth. It has greatly enhanced Singapore's competitiveness by raising productivity and transforming business processes in industries like finance, services and manufacturing.

Singapore is also poised to be an Infocomm hub, attracting multinational giants as well as international tech start-ups and exciting user organisations. Infocomm revenue showed strong growth, reaching \$167.05 billion in 2014, at an annualised growth rate of 15% from 2008 to 2014; and employed 150,200 infocomm professionals.*

BEING A PART OF THE INFOCOMM INDUSTRY

As Singapore progresses towards becoming a Smart Nation, the Infocomm industry will move towards higher value-add knowledge work and Intellectual Property creation, leading to demand for critical Information and Communication Technology (ICT) skills. According to a Hudson report[^], the Infocomm industry continues to exhibit the strong hiring intentions with 55.3% of employers intending to raise their manpower in 2015.

Click on the following occupations to find out how you can join the Infocomm industry.



DATA ANALYST



**INFORMATION TECHNOLOGY
SECURITY OFFICER**



NETWORK ADMINISTRATOR



**SOFTWARE AND
APPLICATIONS DEVELOPER**



SYSTEM ANALYST



BIOPHARMACEUTICALS
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INFOCOMM

• Click on the icons to get more information on this occupation.

MY ESTIMATED SALARY
\$2,500 - \$5,500*

WHAT I DO

- Collect data from multiple data sources to support user case/metrics
- Work with the relevant business stakeholders to understand the business problems and develop recommendations to support user case
- Analyse high-volume, high-dimensionality and high-volatility structured and/or unstructured data to obtain business insights and recommendations
- Design and generate reports, data visualisation and dashboards that supports the target user case/metrics
- Assist to operationalise the analytics model to improve business effectiveness
- Present periodic/ad-hoc reports to the relevant business stakeholders

HOW I QUALIFY

Diploma     
or **Degree**     
in Statistics, Mathematics, Business Analytics, Computer Science or equivalent



**VIEW OTHER
OCCUPATIONS**



MY POSSIBLE PROGRESSION

Data Scientist



Senior Data Analyst



Data Analyst

DATA ANALYST

MY WORKING CONDITIONS

- May be required to travel to other locations to collect data
- Occasional evening or weekend work subject to project deadlines
- May be required to spend long period in front of a computer terminal

Recommended WSQ Courses for me

- National Infocomm Competency Framework (NICF) courses and training programmes



BIOPHARMACEUTICALS
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INFOCOMM

• Click on the icons to get more information on this occupation.

MY ESTIMATED SALARY
\$3,300 - \$5,500*

WHAT I DO

- Implement and enforce security policies and procedures across a range of platforms and systems to handle security incidents
- Trouble-shoot first line attack assessment, threat analysis and incident handling relating to network security events as they occur on operational and classified networks
- Perform risk assessment activities to establish potential security threats and vulnerabilities
- Draft and design the security architecture and monitor the intrusion detection system
- Maintain currency with security technologies and architectures with on potential security threats and breaches such as those posed by viruses and unauthorised system access

HOW I QUALIFY

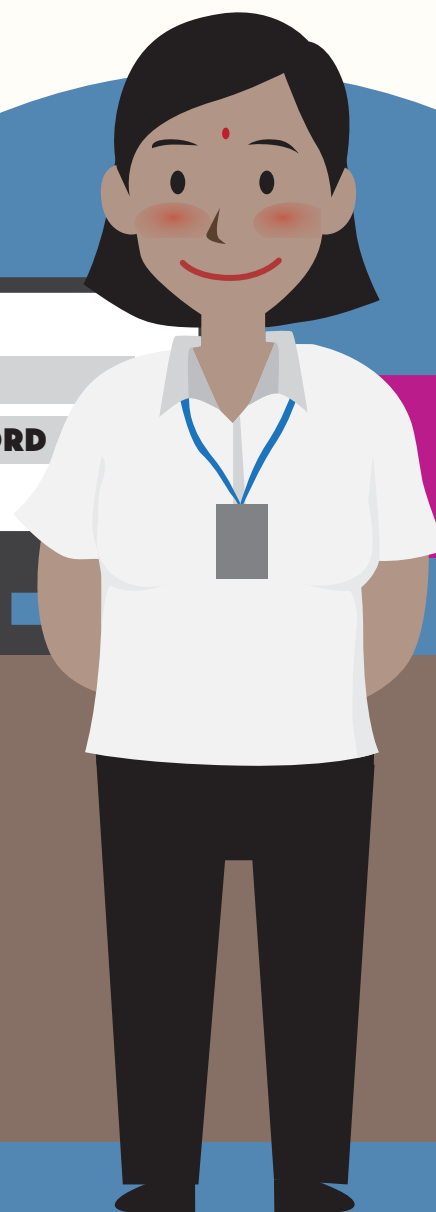
Diploma 
or **Degree**  in Computer Science
or Information Systems or equivalent

Other requirements

- 2 to 3 years of working experience in Information Communication Security



**VIEW OTHER
OCCUPATIONS**



INFORMATION TECHNOLOGY SECURITY OFFICER

MY POSSIBLE PROGRESSION

Chief Information Security Officer



Information Security Manager



Information Technology
Security Officer

MY WORKING CONDITIONS

- Usually work for large companies or organisations with particularly sensitive data (investment firms, insurance companies and government agencies)
- Occasional evening or weekend work subject to organisational requirements

Recommended WSQ Courses for me

- National Infocomm Competency Framework (NICF) courses and training programmes



BIOPHARMACEUTICALS
MANUFACTURING

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ACCOMMODATION

INFOCOMM



INFOCOMM


• Click on the icons to get more information on this occupation.

MY ESTIMATED SALARY
\$3,200 - \$4,900*

WHAT I DO

- Install and manage network resources to ensure the provision of services in line with enterprise service level requirements
- Monitor network performance for reliability to assure minimum interruption in network service
- Identify, analyse and solve network problems to improve levels of service
- Create a secure networking environment by monitoring and reporting security breaches and any unauthorised data access
- Schedule and perform software installations and upgrades to operating systems and layered software packages them in accordance with established IT policies and procedures
- Implement a schedule of system backups and database

HOW I QUALIFY

Diploma     
or **Degree**      in Computer Science
or Information Systems or equivalent

Other requirements

- 2 years relevant experience in IT systems, network/systems administration



**VIEW OTHER
OCCUPATIONS**



MY POSSIBLE PROGRESSION

Chief Technology Officer



Network Operations Manager



Network Engineer



Network Administrator

NETWORK ADMINISTRATOR

MY WORKING CONDITIONS

- May be expected to work in server rooms/data center setting
- May be required to interact with other computer professionals and organisation's employees
- Occasional evening or weekend work subject to organisational requirements

Recommended WSQ Courses for me

- National Infocomm Competency Framework (NICF) courses and training programmes



BIOPHARMACEUTICALS
MANUFACTURING

HEALTHCARE

HOTEL AND
ACCOMMODATION

INFOCOMM



INFOCOMM





• Click on the icons to get more information on this occupation.

MY ESTIMATED SALARY
\$3,300 - \$5,500*

WHAT I DO

- Participate and contribute to the review, analysis and verification of business and software requirements
- Create and maintain software/ applications in accordance to technical detailed design
- Develop test plan and run unit testing to determine functionality of software/applications
- Participate and contribute to the review and verification of test requirements and test cases
- Prepare technical documentation and reports on software/applications development
- Work with Application Support Lead in resolving software/applications issues

HOW I QUALIFY

Diploma     
in Information Systems, Computer Science or equivalent

Other requirements

- Working experience in software development or programming



SOFTWARE AND APPLICATIONS DEVELOPER

MY POSSIBLE PROGRESSION

Application / Solutions Architect

Application Development Manager

Software Engineer

**Software and
Applications Developer**

MY WORKING CONDITIONS

- Remote working options available
- May be required to spend long period in front of a computer terminal

Recommended WSQ Courses for me

- National Infocomm Competency Framework (NICF) courses and training programmes



VIEW OTHER
OCCUPATIONS





BIOPHARMACEUTICALS
MANUFACTURING

HEALTHCARE

HOTEL AND
ACCOMMODATION

INFOCOMM



INFOCOMM

• Click on the icons to get more information on this occupation.

MY ESTIMATED SALARY
\$3,900 - \$6,100*

WHAT I DO

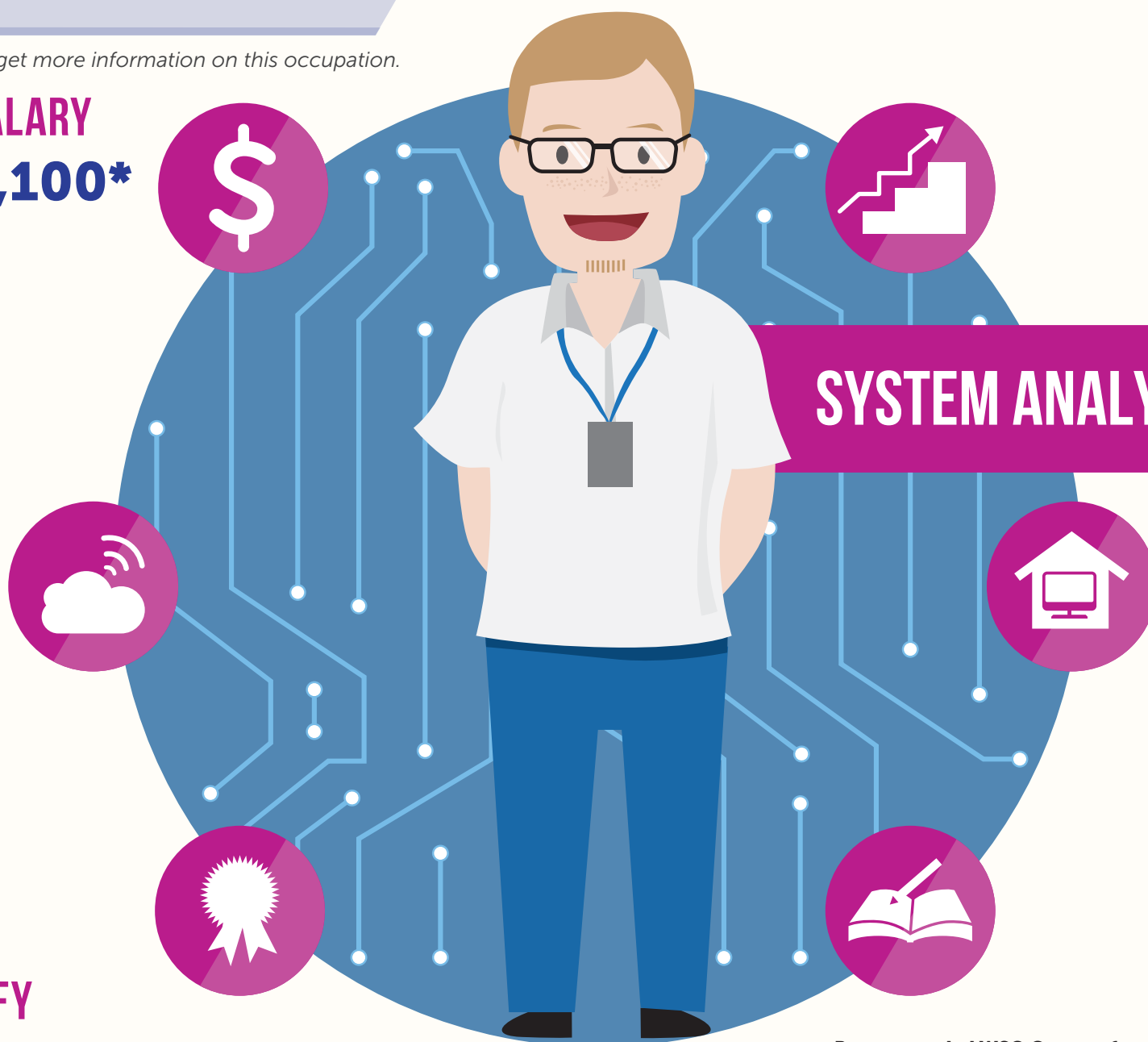
- Participate and contribute to the review, analysis and verification of business and software requirements
- Develop detailed software requirements, evaluation tools and techniques and contribute expertise to software development team to ensure that system proposals are fully analysed and evaluated
- Propose alternative solutions and technologies to improve and bring about high quality system solutions
- Participate and contribute to the review and verification of test requirements and test cases
- Assist in developing acceptance testing and user training plans to ensure the quality of product as well as its smooth implementation

HOW I QUALIFY

Degree      in Information Systems, Computer Science or equivalent

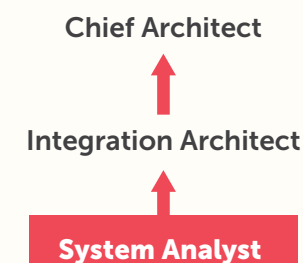
Other requirements

- At least 2 – 4 years of working experience in software development or implementation



SYSTEM ANALYST

MY POSSIBLE PROGRESSION



MY WORKING CONDITIONS

- Remote working options available
- Occasional evening or weekend work subject to organisational requirements

Recommended WSQ Courses for me

- National Infocomm Competency Framework (NICF) courses and training programmes



**VIEW OTHER
OCCUPATIONS**





OCCUPATION INSIGHTS

ACKNOWLEDGEMENTS

WITH CONTRIBUTIONS FROM:

**INFOCOMM DEVELOPMENT
AUTHORITY OF
SINGAPORE (IDA)**

MINISTRY OF HEALTH

**SINGAPORE TOURISM
BOARD (STB)**