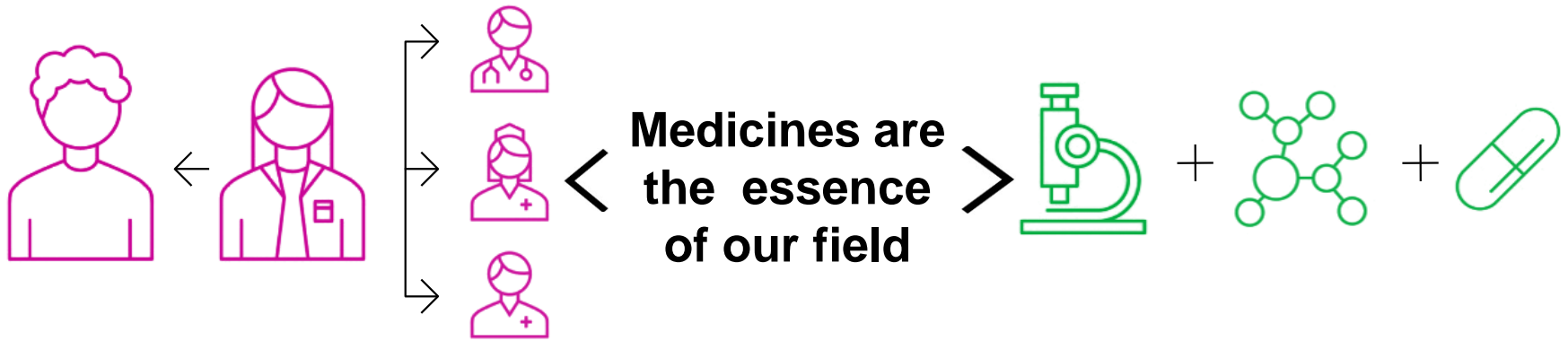


# Pharmaceutical Science: The job-ready science degree



## Pharmacy or Pharmaceutical Science

# What's the difference?



Pharmacists are health professionals who are medicines experts, and work with patients and healthcare teams

Pharmaceutical Scientists make medicines. They advance the science of new and existing medicines

A female scientist with blonde hair, wearing safety glasses and a white lab coat, is focused on her work in a laboratory. The scene is illuminated with a strong blue light, creating a professional and scientific atmosphere. In the background, various pieces of laboratory equipment, including a metal stand and tubing, are visible.

Pharmacy or Pharmaceutical Science

## Why consider?

You could be a good fit if you:

- Are comfortable with maths, chemistry or biology
- Want to work in healthcare
- Are interested in treatments and cures for disease
- Want to work in an industry that is essential and evolving
- Want to study a course with clear graduate direction
- Want to help people and make a difference to society.

# Our reputation

**1<sup>st</sup>**

In Australia and  
Asia-Pacific

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**1<sup>st</sup>**

Worldwide for  
academic reputation

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**1<sup>st</sup>**

Worldwide in overall category  
#2 Harvard  
#3 Oxford

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**Top  
10**

Worldwide  
(average 2011 – 2022)

# Faculty-wide commitment to innovation in education

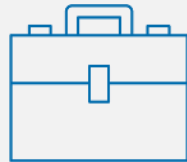
## Active learning

- Theatres
- Workshop spaces
- Laboratories



## Employability

- Networking
- Interviewing
- Presentation skills



## Experiential learning

- Early
- Enhanced



## Skills coaching

- Individualised feedback
- Focused team meetings



# The Parkville Campus

Established  
1881 ... rich and  
deep history

Single purpose  
campus; strong  
community

Melbourne's  
Medical and  
BiotechPrecinct

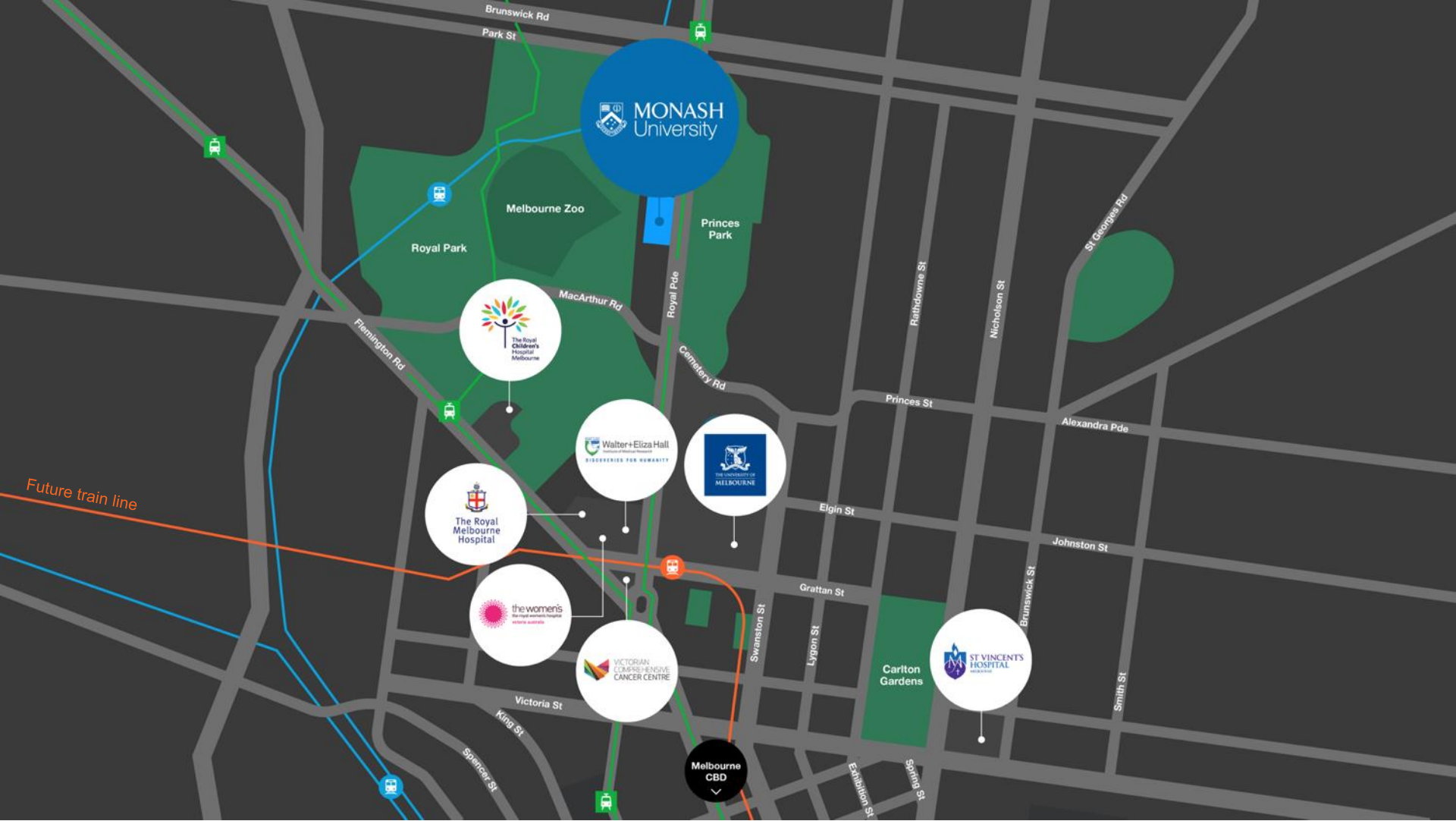
Part of Monash,  
a global top100  
university



# Student life at Parkville

- Close to the Melbourne CBD and public transport
- Make friends easily; you'll have a peer mentor from Day 1
- Dedicated Clubs and Societies located on campus
- 24 hour security and study spaces
- International student body - 30%~





MONASH University

Melbourne Zoo

Royal Park

Princes Park

The Royal Children's Hospital Melbourne

Walter+Eliza Hall  
DISCOVERIES FOR HUMANITY

THE UNIVERSITY OF MELBOURNE

The Royal Melbourne Hospital

the women's  
the only women's hospital in australia

VICTORIAN COMPREHENSIVE CANCER CENTRE

ST VINCENTS HOSPITAL

Melbourne CBD

Future train line



The background features a gradient from dark blue at the top to dark green at the bottom. Several translucent, glowing spheres of various sizes are scattered across the scene. On the right side, a large, white, stylized letter 'M' is partially visible, extending from the top to the bottom of the frame. A solid green vertical bar is located on the far left edge.

# Pharmaceutical Science

# What is Pharmaceutical Science & why does it matter?

Pharmaceutical science is all about advancing the science of new and existing medicines.

New diseases are emerging all the time, and existing diseases evolve. We need pharmaceutical scientists to find treatments and cures for disease.

Pharmaceutical scientists are also found in a wide range of allied industries. The knowledge, skills and instrumentation techniques they learn are highly transferable.

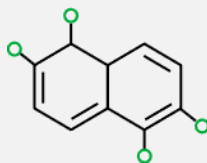


# The Drug Discovery Pipeline: Journey of a medicine and a product

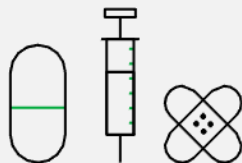
Basic research to identify drug target



Drug compound discovery chemistry to address that target



Understanding how to develop a formulation to make a drug stable, safe and effective



Clinical evaluation in humans to confirm safety and efficacy



Product development, registration



Drug Discovery Biology



Medicinal Chemistry



Formulation Science

# Focus on skills

## Cognitive

- Critical thinking
- Problem solving



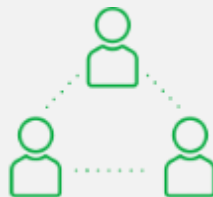
## Communication

- Written
- Oral
- Visual



## Teamwork

- Interpersonal
- Social



## Scientific enquiry

- Experiment design
- Data documentation, analysis and presentation



## Laboratory

- Practical techniques
- Instrument operation
- Safety procedures



# Course options

Year 3 – BPharmSci
Year 2 – BPharmSci
Year 1 – BPharmSci

BPharmSci



Year 4 – Honours
Year 3 – BPharmSci
Year 2 – BPharmSci
Year 1 – BPharmSci

BPharmSci  
(Adv Hons)

Year 5 – BChemEng
Year 4 – BChemEng
Year 3 – BPharmSci
Year 2 – BChemEng
Year 1 – BPharmSci

BChemEng and  
BPharmSci (double)

# Career opportunities

Biomedical research



Academia

Pharmaceuticals

Regulatory affairs

Skincare and cosmetics

Forensics



Paints and coatings

Food and beverage



Agrochemicals

Patents and intellectual property



When I was a student I loved being in the lab because it's so hands on and satisfying when it leads to a result. That's why I enjoy cosmetics –it's all about working towards a final product and getting that product out into the world within a set timeframe."

–Georgie Percival

Production and New Product Development  
Scientist, Milkman Grooming Co

The background features a gradient from dark blue at the top to green at the bottom. Several translucent, glowing spheres of various sizes are scattered across the scene. On the right side, a large, white, stylized letter 'M' is partially visible, extending from the top to the bottom of the frame.

# Pharmaceutical Science Employability videos



# Videos

[Pharmaceutical Science Education in the Age of COVID-19: Lab teaching during lockdown](#)

[Employability Intensive Overview](#)

[Pharmaceutical Science Placements: Jeff's Story](#)

[Learning and Teaching at Monash Pharmacy and Pharmaceutical Sciences](#)

