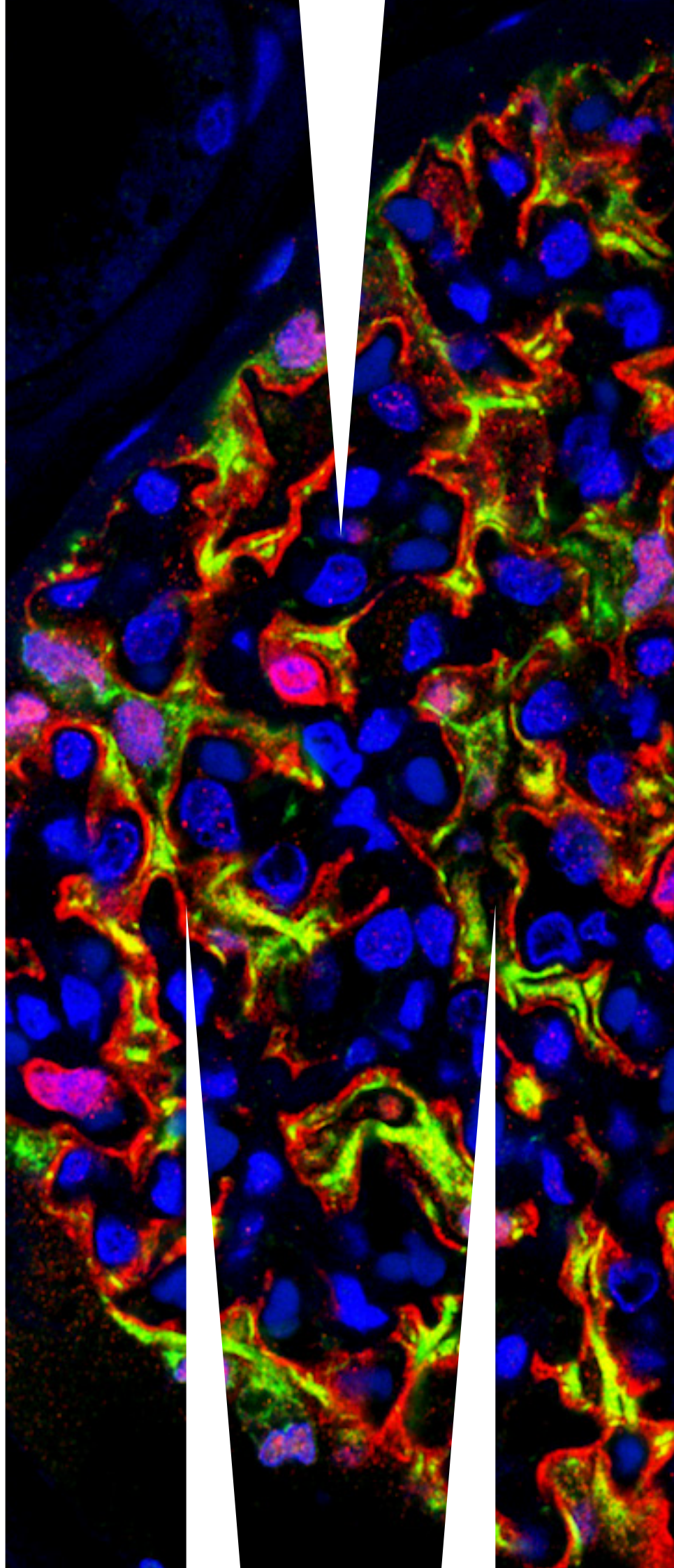


CAREERS IN BIOMEDICAL SCIENCE

monash.edu/discovery-institute





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The cover image was supplied courtesy of Monash Micro Imaging.

Human Glomerulus: Wt-1labelling podocyte cytoplasm (green), IBA-1staining glomerular basement membrane (red) and DNA counterstain DAPI (blue).

James van der Wolde, Department of Anatomy and Developmental Biology and BDI, Monash University.

WELCOME

Studying biomedical science opens up a world of exciting career possibilities. This guide aims to help you get started exploring these. It also provides essential information about programs and resources that will enable you to develop critical transferable skills that are highly valued by employers.

Biomedical science students are often drawn to the discipline because they are interested in combining their love of science with a desire to improve health outcomes for individuals and communities. Many of you will be considering your options after graduating – perhaps you’re interested in going into research or pursuing a career in medicine. But your options don’t end there. Did you know that your biomedical science degree can lead to a career where you drive health policy and inform government regulation of the health sector? Or that you might assist companies with commercialising medical research? Potential careers include designing medical technologies, allied health professions, forensic science, or in the education sector. These are just some of the many careers that begin with your Bachelor of Biomedical Science degree. The alumni profiles in this guide are testament to this fact. Career paths are much less linear than they were in the past, and we know that current students are likely to change their careers many times throughout their working lives, some undertaking roles we have not yet imagined. For this reason, it is important to not just think about the content you will be learning, but to consider the skills you will develop within your course that will prepare you for many different roles in many varied industries.

As part of your biomedical studies, you will have opportunities to be involved in research projects (3990 ‘Research in Action’ units), a laboratory intensive (BME3030) or a work placement unit (BME2032) and I encourage you to take advantage of these opportunities. This will support you to develop a skill set that is highly valued by the health and biotechnology industries, as well as by non-science industries. Be inspired by our alumni stories as you start to explore the many career options that stem from studying biomedical sciences. I wish you all the best in your careers.



Associate Professor Julia Choate
Course Coordinator
Bachelor of Biomedical Science

Acknowledgement

We acknowledge the traditional lands of Indigenous peoples.

The Faculty incorporates the Aboriginal and Torres Strait Islander Curriculum Framework in educating future health professionals. You will learn skills in respect, communication, safety and quality, advocacy and reflection to improve Indigenous health.

Monash is committed to facilitating the entry of Indigenous students into courses. There are a range of pathways, entry points, bursaries, scholarships, accommodation, tutorial support and cadetships. To learn more about entry requirements and our Indigenous Access Interview, contact Gukwonderuk Indigenous Health staff via email at med.indigenoushealth@monash.edu or 03 9905 3828.

EMPLOYABILITY SKILLS

In addition to the knowledge you'll gain from your Bachelor of Biomedical Science (BBiomedSc), when entering the workforce you'll need to have a set of transferable skills that will enable you to adapt to the requirements of your role and manage the constantly changing work environment.

Transferable skills are core skills that you can apply across a range of different roles and workplaces, such as your ability to solve problems and to communicate effectively. Your employability will be maximised if you have a good academic record and a set of transferable skills that you can clearly describe to employers and substantiate with examples.

Core employability skills, including both transferable and technical skills, include:

- communication
- critical thinking
- creativity and innovation
- initiative and enterprise
- professionalism
- planning and organisation
- problem identification and solution
- intercultural competence
- teamwork
- use of tools and technology

Many employers consider these transferable skills just as important as your technical knowledge. In the 2021 Graduate Outlook Survey, participating employers nominated the selection criteria they use most when recruiting graduates. Transferable skills came out on top: 'communication skills', 'cultural alignment/values fit' and 'emotional intelligence' were used most often.

This guide provides information about programs and resources offered by the university that will allow you to develop transferable skills. Make the most of these opportunities to ensure that when you graduate you have the skills that employers are looking for.

Biomedical science graduates are highly sought-after in many industries, as employers are aware that the BBiomedSc is a rigorous degree that produces graduates who can think analytically, process complex information and solve problems effectively. This can be seen in our BBiomedSc alumni cohort, with many of them choosing to pursue rewarding careers outside of the biomedical industries where their skills are also highly valued.

Below are some examples of situations in which you may have used employability skills through your university studies and extracurricular activities:

SKILLS AREA	SKILLS CLAIMS	POSSIBLE EVIDENCE
Communication	<ul style="list-style-type: none">■ Organising and expressing ideas concisely.■ Adapting your communication style to suit different target audiences.■ Effectively communicating the findings of scientific experiments.	<ul style="list-style-type: none">■ Presenting and participating in class discussions.■ Using customer service skills.■ Writing lab reports.
Teamwork	<ul style="list-style-type: none">■ Working in a team to achieve a common goal.■ Sharing information, supporting and empowering other team members.■ Responding constructively to the opinions of others.	<ul style="list-style-type: none">■ Working on group assignments at university.■ Being involved in a student society, sports team or community organisation.■ Working in a team for your part-time job.
Problem identification and solution	<ul style="list-style-type: none">■ Researching and selecting relevant information to solve a problem.■ Analysing issues for underlying causes, assessing options, proposing solutions.■ Thinking sequentially, critiquing and synthesising information.	<ul style="list-style-type: none">■ Working on assessment exercises such as lab work or research projects.■ Tasks completed as part of Industry Based Learning or a summer research project.■ Working within a customer service environment and dealing with complaints.
Initiative and enterprise	<ul style="list-style-type: none">■ Easily adjusting to new situations.■ Mapping out ideas to an action plan.■ Identifying innovative options.	<ul style="list-style-type: none">■ Obtaining a work placement, vacation employment or internship.■ Finding better ways to do things in an assignment group, student club or team.
Planning and organisation	<ul style="list-style-type: none">■ Managing timelines and prioritising.■ Allocating and coordinating tasks for yourself and others.■ Anticipating future needs and forward planning.	<ul style="list-style-type: none">■ Managing your time well such that you participate in extracurricular activities or work part-time alongside your studies.■ Completing multiple exams or assessments and still getting good marks.■ Planning an event for a student club or society.
Use of tools and technology	<ul style="list-style-type: none">■ Proficiency in using lab equipment and scientific techniques.■ Managing information through technology.■ Learning to use new tools or software when required.	<ul style="list-style-type: none">■ Lab work conducted for biomedical science units, industry placements or research projects.■ Sourcing information with electronic databases.■ Using specialised software packages to complete tasks for your course, part-time job or research project.

BUILDING EMPLOYABILITY SKILLS

Extracurricular and course-related activities give you opportunities to develop new employability skills, and provide evidence of skills used in a context that's often relevant to the workplace. Below are some examples of activities that you may find helpful for developing employability skills.

Industry-Based Learning

The BME2032 Biomedical Industry-Based Learning elective unit will help you gain employability skills and work experience in a biomedical industry. This unit involves a three-week internship in a biomedical workplace, giving you a head-start in learning the professional skills required to thrive in the workforce. During the internship, you'll work on real projects that will give you valuable insight into the biomedical industries.

You'll have the opportunity to:

- expand your network
- enhance your professionalism
- develop key transferable workplace skills.

When you finish your internship, you'll reflect on your skill development and present your project findings to an audience of peers, industry partners and academics.

Internship features:

- available to domestic and international students
- can be paid or unpaid depending on the industry partner
- available in a wide range of host organisations, including private and not-for-profit organisations
- duration: minimum 80 hours of placement.

Examples of organisations that have been selected due to the quality of their internship opportunities are the Lung Function Lab at The Alfred and the Cardiac Physiology Lab at Monash Health. Please note that some organisations have their own selection processes for interns.

Leadership Programs

Student year level representatives

Student representatives make sure that the voices of students in their year levels are heard. Each undergraduate year level (including honours) has representatives who report to the Course Management Committee. Year level representatives gain experience in liaising with a range of stakeholders, and have opportunities to develop communication and leadership skills.

Leap into Leadership Online

Leap into Leadership Online is a series of free modules that allow you to develop your employability and leadership skills at your own pace. They are available for all current Monash students and can be completed at any time. Each module is practical, straightforward and fun, and takes about one to two hours to complete. The modules will help you to hone specific leadership skills, and will be useful evidence of skill development to discuss with employers.

Vice Chancellor's Ancora Imparo Leadership Program

The Vice-Chancellor's Ancora Imparo Leadership Program is a unique opportunity available only to second-year Monash University students. Participants will hear from inspiring leaders with a wide variety of backgrounds. Program participants attend a fully-funded three day residential program, a series of seminars and can complete a service learning project.

Being a biomed peer mentor is a great opportunity to improve the first year experience and is a great way to develop your leadership potential. As the peer mentoring coordinator, my highlight was getting to organize and run a trivia night for first year students. It was an amazing feeling getting to see all the effort we put into creating this event being rewarded with the enjoyment and positive feedback we got from the students.

Your university experience is defined by the opportunities and experiences you take. Don't confine yourself to just your studies, branch out, find something that interests you and get involved.

— **Ben Davis, 3rd year student, Peer Mentor Coordinator**
Bachelor of Biomedical Science (Scholars)



Mentoring Programs

Biomedical Science Peer Mentor Program

Students in their second year or higher of a biomedical science degree (including double degrees) can apply to be a peer mentor. Mentoring a group of first-year students will give you valuable opportunities to enhance your leadership and public speaking skills. You'll get to share your experiences and advice about studying biomedical science, and give back by helping younger students successfully transition to university life.

Registrations for the Peer Mentoring Program open in October and full training is provided.

Access Monash Ambassador Program

The Access Monash Mentoring Program pairs experienced and engaged Monash University students with VCE students from under-represented schools to work in a one-on-one mentoring relationship for their final two years of secondary school.

Mentors benefit from the opportunity to develop leadership, public speaking and teamwork skills. They also form valuable connections with senior Monash alumni and community leaders. In addition, each year 25 mentors are selected to become Mentor Leaders. These students play a key role in training new mentors and providing ongoing support to the Access Monash team, as well as actively working to promote Access Monash through the university and wider community.

Clubs and Societies

Joining the committee of a student club or society allows you to develop skills you may not otherwise gain during your undergraduate studies, such as managing a budget, planning events and raising revenue.

Part-Time Work

Working part-time while you study can be a great way to gain employability skills and workplace experience, as long as you limit your working hours to a manageable amount per week that won't detract from your studies. A great place to start your job search is Career Gateway, which is a jobs portal available exclusively to Monash students. Log into Career Gateway here: <https://careergateway.monash.edu.au/students/login>

Volunteering

Volunteering can be one of the most rewarding ways of developing your own skills. Research has shown that volunteer work can improve your chances of finding paid work and has a positive effect on career progression for people under 25.

Through volunteering, you'll be able to develop valuable employability skills from a wide range of positions, but you may like to find an opportunity that is directly relevant to your desired career path. For example, you could volunteer at a hospital or for a public health organisation to gain first-hand industry experience and to expand your professional network.



My time as a student rep really pushed me to meet more of my peers and build stronger relationships with them. I have learnt that biomed is more than just the students. It is about fostering relationships between students, academics, educators and administrative staff. Being able to represent the student body and share concerns with the faculty helps create a more inclusive environment for both students and educators. It is a rewarding experience to be a biomed student rep and it has really helped me integrate myself into tertiary life.

— **Audrey Middleton, 2nd year, Student Representative**
Bachelor of Biomedical Science



Access Monash Mentoring has given me the opportunity to make a difference in someone's life and provide the support they need to release their potential. I have been able to guide and assist students to achieve what they may not have believed was possible beforehand.

Through my role, I gained communication and leadership skills as well as teamwork and problem solving. The program has provided me with opportunities to engage with events, seminars, training, campus tours and even facilitating and planning my own mentoring sessions!

The biggest highlight of being in the program was being able to guide and support high school students to achieve their potential and carve a pathway for them to attend university.

— **Letisha Osagiede, 2nd year student,**
Bachelor of Biomedical Science

COMMUNICATING YOUR SKILLS TO EMPLOYERS

It's likely that you already use a wide range of skills for both your studies and for extracurricular activities, but it's important that you can identify specific examples of your skill use and effectively communicate these to employers.

Personal and Professional Development Program

The award-winning Bachelor of Biomedical Science Personal and Professional Development Program (BMS PPDP) integrates professional development activities into your undergraduate degree. The program consists of six modules embedded within core biomedical science units and focuses on three main themes: **professionalism**, **wellbeing** and **career development**.

Professionalism

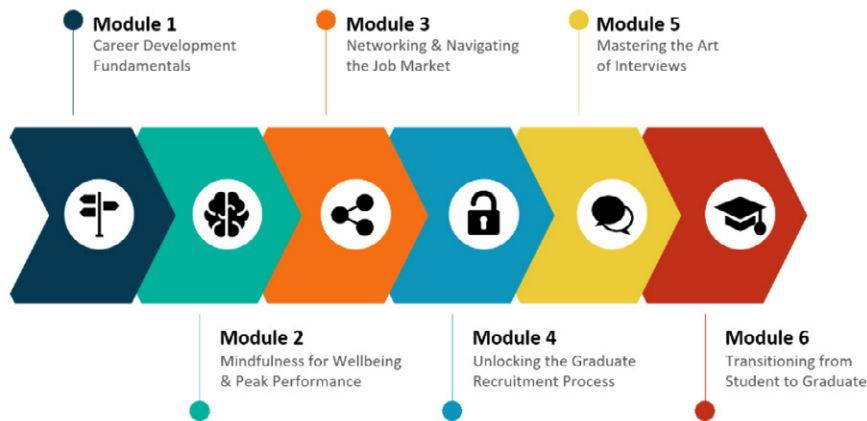
The Bachelor of Biomedical Science produces graduates who have professional careers in research, industry, education, medicine, allied health professions and many other sectors. You will learn how to exhibit a high level of professionalism from the very beginning of your degree, as well as establish an ethical approach to learning and interaction with others.

Wellbeing

Your health and wellbeing are of paramount importance. Under the instruction of an internationally renowned mindfulness expert (Professor Craig Hassed), you will learn how mindfulness techniques can reduce stress, improve wellbeing, enhance study skills and boost your academic performance.

Career Development

Our career development modules are delivered in collaboration with expert career consultants from Career Connect. Over the course of your degree you will learn how to develop your employability skills, source job opportunities, build a professional network and effectively communicate your skills, knowledge and experience to prospective employers.



The Personal and Professional Development Program provided me with a chance to actively reflect on my journey throughout my biomedical science degree at Monash. Through this course, I was able to prioritise and be reminded of my goals, especially during stressful periods of my degree. The PPDP used career driven modules to educate me on what skills are important to boost employability. I feel more prepared and confident to go out there and start my professional career. Most importantly, PPDP encouraged me to practice mindfulness and demonstrated the impact this can have not only on my health and well-being, but academic performance as well.

—
Anja Vukosavljevic,
Bachelor of Biomedical Science (2021)



GRADUATE CAREERS

It's a great time to be a biomedical science graduate as the biomedical industries are experiencing high growth in Australia, and employers are seeking candidates with scientific skills and knowledge.

Australia is ranked as one of the world's top five countries for biotechnology innovation, and the medical technology and pharmaceutical sector is our tenth largest export*. The Victorian Government has identified medical technologies and pharmaceuticals as one of the state's six future industries, which are priority sectors that are set to experience economic growth and create high-wage jobs for highly skilled employees.

*MTPConnect.org.au, 2018

Below are some examples of fields related to the biomedical sciences in which you could find work without needing to complete further study.

Pharmaceutical Industry

In the pharmaceutical industry, you could find work that relates to medical services, the marketing and selling of drugs, clinical development, business development or regulatory affairs.

Examples of job opportunities:

- GlaxoSmithKline Commercial Management (Pharmaceutical) Future Leaders Program
- Roche Pharma Graduate Program
- CSL Behring Graduate Program (Commercial Operations Stream)

Commercialisation and Biotechnology

In this field, you could be involved in transforming biomedical research into marketable products and services. Opportunities exist in both the government and private sector.

Examples of job opportunities:

- Australian Defence Force Graduate Program
- Department of Industry, Innovation and Science Graduate Program – Australian Government

Health Promotion and Policy

Health promotion and policy could see you apply your knowledge of biomedical sciences to prevent disease and improve the health of communities and populations. Some jobs in health promotion and policy don't require further study, such as State or Federal Government graduate programs.

Examples of job opportunities:

- Department of Health Graduate Development Program – Australian Government
- State government policy generalist graduate programs – Victorian Government or other state governments

Research Management

If you're interested in biomedical research but don't want to work in a lab yourself, a career in research management could be for you. Research managers strategically plan and coordinate research projects, manage budgets and identify research priorities.

Employers of research managers include universities and research institutes. Work experience in a biomedical related industry is generally required.

Health Insurance

The private health insurance industry is essential to the Australian health system, providing insurance coverage for almost half of the population. Working in this industry could give you opportunities to educate customers and promote health and wellbeing, as well as managing relationships with customers and other stakeholders.

Examples of job opportunities:

- Medibank Private Graduate Program (Health Management stream)

Laboratory and Facilities Management

Laboratory and facilities managers combine scientific expertise with managerial skills to ensure that lab operations run efficiently and effectively. Their tasks often include strategic planning and coordination of lab activities and managing staff. Laboratory and facilities managers can find work in private or university labs.

Food Technology

Food technologists use their knowledge of biological and chemical sciences to research, develop and manufacture food products that meet consumer needs. They may also be involved in quality control and food safety.

Examples of job opportunities:

- Coles Graduate Program (Product Technology stream)
- Woolworths Graduate Program (Product Development and Quality Assurance stream)
- Mars Graduate Program (Research and Development stream)





ALUMNI PROFILE

AARON MITSIOULIS

Associate Risk Consultant,
Grant Thornton

Bachelor of Biomedical Science/Bachelor of Commerce (2022)

I am an Associate Risk Consultant at Grant Thornton Australia. This role involves analysing business risks and helping different organisations apply measures and controls to face them. Such risks involved in my client engagements include financial crime, payroll assurance, cyber resilience and risk management. At Grant Thornton, you work directly with senior managers, directors and partners, who help you develop not only as a professional but as a person.

One of the most fascinating parts of the job is that no day is ever the same. Every day I am faced with new risks from an abundance of intriguing companies. Risk Consulting allows me to strengthen my analytical and problem-solving skills whilst introducing me to a variety of financial risks I never knew existed. I also love how much opportunity there is for progression in this role. You continue to meet new people, exposing yourself to potential new areas of interest.

How I got here

Originally studying a single bachelor, “Bachelor of Biomedical Science”, I came to know that the traditional medicine or research pathway was not for me. Therefore, adding a double degree to my studies, in my case, “Bachelor of Commerce”, allowed me to broaden my knowledge in both science and business. Still wanting to utilise both these skills but not being sure on what occupation I truly wanted, I came across a Consulting Vacationer Program application at Grant Thornton. Being successful in my application, I was able to spend four weeks in the firm learning about Management and Risk Consulting services. It was during this vacation experience where I found a passion for consulting a broad range of clients both in the management and risk space. I highly recommend that current Biomedical Science students apply to intern opportunities like these wherever they can, as the experiences help align you to a career path.

What skills did Biomedical Science give you to enable your success in your current profession?

If it was not for my Biomedical Science Degree, I would not have the analytical hard skills required as a Risk Consultant. Through numerous laboratory classes, lectures and tutorials from outstanding individuals, I was able to adapt to new topics quickly and practice my attention to detail skills.

Did you do any extracurricular activities that you believe have helped you to get to your current position?

Joining the Biomedical Science Society as a member allowed me to meet new people and make new friends throughout my studies. This not only provided me with a support network at university, but also allowed me to develop confidence and interpersonal skills. These are the same skills that are used daily as a Risk Consultant, contributing to client meetings and working with a wide range of people.

What advice would you give to current Biomedical Science students who are considering your career path?

Cherish today. There is no need to panic or ever feel like there is no path for you. You have done an amazing job to even be studying Biomedical Science at Monash University in the first place. Continue to strive to be the best version of yourself not only academically but as a person. It is important to keep all your options open. Biomedical science does not only mean Medicine or Clinical Research, in my case it meant consulting! The knowledge from your degree provides you with so many technical and personal skills that you can apply to any job, so do not stress about having a clear career path. Do, however, apply for everything and make life long friends!

Did you consider any other career pathways and why?

I thought about perusing Biomedical Statistics (“Stats”) through a Master’s of Public Health. This area was so fascinating to me as you could apply mathematical analysis to real life health examples. Had I not pursued consulting, it may have been something I would have looked at continuing after my bachelor degree was complete.



ALUMNI PROFILE

PENNY ROBINSON

Lecturer, Monash Uni

Bachelor of Biomedical Science (2004),
Honours degree in Biomedical Science (2005), Masters of Biostatistics (2009),
Graduate Certificate in Academic Practice [GCAP] (2014)

I’m a Lecturer in the School of Public Health and Preventive Medicine at Monash University. I teach a mixture of biostatistics, epidemiology/public health in BMS1042, Year 1 Population Health and Year 3B Research Methods. I am also a Biostatistician in the Women’s Health Research Program. This entails doing data analysis of various projects the group is doing, and providing statistical advice.

I like biostatistics / numbers / data analysis - unlike lots of people! In the data cleaning process, its satisfying to finally have the numbers “add up”. In teaching, sometimes students struggle to understand a concept. I love seeing the “light bulb” when a student finally gets it. I found being a biostatistics advisor for WHRP while we were all working from home in 2020 at the start of the COVID pandemic really challenging - cos I was used to explaining things in person, not over Zoom! I’m enjoying having my own small data analysis projects again now.

How I got here

In 2002, I enjoyed studying BMS1042 myself. I also enjoyed physiology & pharmacology electives in my undergrad. I discovered physiology lab work wasn’t for me (thanks to 2004 summer vac experience). My Honours project in 2005 was in the Department of Epidemiology and Preventive Medicine (DEPM) & data-analysis heavy. I discovered that I enjoyed (and was good at) data analysis, and lots of others didn’t enjoy it. So I then choose to do a Masters of Biostatistics through the Biostatistics Collaboration of Australia (BCA). While doing my Masters, I did some sessional teaching for BMS1042 biostatistics as well as a few other subjects. After completing my Masters, I got head hunted by the Women’s Health Research Program - who wanted my data analysis skills in Survival analysis for their project. A couple of years later, I choose to study GCAP (over a PhD), because I could see myself as a unit coordinator of a subject in the future, but I couldn’t imagine myself as a research lead - cos the biostats role is data analysis. Within a year of completing GCAP, I was given the opportunity to be one of the unit coordinators of BMS1042. My teaching responsibilities have gradually increased over time.

What skills did Biomedical Science give you to enable your success in your current profession?

- Data analysis
- Communication - need to explain biostats analysis to others in team & need to explain biostats concepts to students
- Team work: I do the data analysis & colleagues (who know literature) write Intro / Discussion of manuscripts for journal articles
- Teaching: The subjects I teach are big units, so two unit coordinators work together with many many tutors!
- Planning & organisation: Need to juggle multiple subjects, and deadlines for each subject

Did you do any extracurricular activities that you believe have helped you to get to your current position?

2005 - 2010: Minute taker / committee member of Public Health Association of Australia Victorian branch. This included sending emails to the email list, and helped my name get known as “the sender of the emails”. Great foot in the door to public health. 2008 - 2012: Administrator of Carnegie Caulfield Cycling Club’s Junior development program. Autistic advocate. In addition to being a lecturer, I give occasional talks on my experience of being autistic. I was diagnosed in Year 9, at the age of 14. From 2015 - 2018, I contributed to Amaze’s “Spectroscopic: Stories of autism” campaign = make a short video on a topic. I’ve also been in the media - 2014 The Age article & 2020 Interview with Virginia Trioli on ABC Mornings. The skills I’ve learnt through extracurricular activities are transferrable to work. For instance, CCCC and Monash both started using Google Drive at a similar time, so I got to learn from 2 different sources. Most of my media to date has been for autism advocacy - but that’s also a transferable skill.

What advice would you give to current Biomedical Science students who are considering your career path?

Follow your interests and try and find your niche. I’m lucky that I’ve found something that I enjoy, and am good at - that lots of others don’t enjoy & struggle with. I believe that everyone has their OWN journey and their own timeline. Don’t be afraid to do it “your way”, in your own time. Take lots of small stepping stones to achieve your goals – rather than fewer, bigger, more daunting ones.

Did you consider any other career pathways and why?

As a kid, I was always playing “doctors and nurses”, and was interested in medical stuff. But I never considered studying medicine because I thought I’d find it too stressful - because of my autism & associated anxiety / stress. So I’ve found a different way to be involved in medicine. My dad is a retired mathematician & statistician. Biostatistics is statistical analysis of medical studies, etc. So biostatistics enables me to combine the two - and kinda follow in my dad’s footsteps, but in my own way.



ALUMNI PROFILE

ADRINA RIDZWAN

Policy Officer, Victorian Department of Health

Bachelor of Biomedical Science (2018)

Master of Public Health (2021)

I am currently working as a Policy Officer in the Mental Health and Wellbeing Division at the Victorian Department of Health. My role is focused on policy and program work involving diverse communities, which includes culturally and linguistically diverse (CALD) populations, LGBTIQ+ people and people with disabilities.

As a person from a CALD background, I love the fact that I can contribute to policy advice and recommendations based on my experiences. It's so important that we hear from people with lived experiences, to ensure that the system is responsive to our needs as people from CALD backgrounds.

How I got here

I remember enjoying a public health subject in my biomedical science degree, which led me to pursue a postgraduate degree in public health. In my final year of my public health degree, the COVID-19 pandemic was at its peak so there were a lot of job opportunities for me. After working in the COVID-19 response for a year, I decided it was time for me to leave and thankfully, I got into this role in an area that I am passionate about. It's been a long and interesting journey from Biomedical Science, but I am loving what I am doing now.

What skills did Biomedical Science give you to enable your success in your current profession?

Biomedical Science equipped me with critical thinking skills. All the subjects in Biomedical Science prompted me to use this skill, which I didn't notice when completing my studies. However, as I entered the workforce, I realised how valuable and transferable this skill is. Many employers love it when you are able to collect, analyse and synthesise information in a succinct manner.

Did you do any extracurricular activities that you believe have helped you to get to your current position?

I was a committee member for the Monash University Islamic Society for 3 years, which I absolutely enjoyed! I have gained many skills from this experience, such as stakeholder management, networking and project management. I also made lifelong friends and connections, who I still keep in contact with and continue to volunteer together in our non-profit organisations. I also participated in various professional and personal development training programs with Victoria University and Australian Muslim Women Centre for Human Rights. These programs helped me build my confidence as a young Muslim woman from a CALD background and equipped me with the skills that I need for my career.

What advice would you give to current Biomedical Science students who are considering your career path?

1. Start networking! Talk to various people and gain some insights from them. They don't necessarily have to be in the public health field but perhaps people with similar interests as you. You can start talking to your peers, lecturers or attend networking events.
2. Consider volunteering for an organisation you are passionate about. Even if it's not related to your dream job, you will gain many transferable skills that will be useful for your career pathway.
3. Never stop learning! There's a wealth of knowledge out there that you don't know, so continue to build yourself on a personal and professional level.

RESEARCH

A career in research

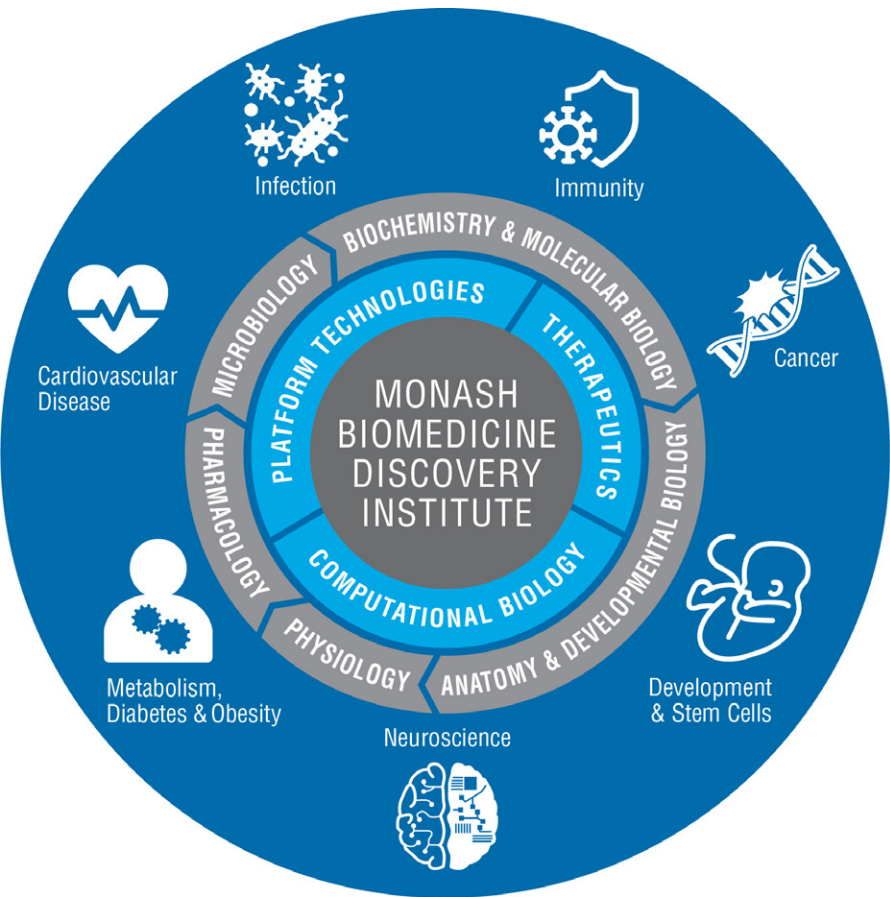
By working in research, you can tackle the big questions in the biomedical sciences and make real progress in improving human health. This rewarding career path allows you to make innovative and novel contributions to the existing body of knowledge in the biomedical sciences. You'll continually learn new things and challenge yourself intellectually. If you later decide that you want to work in the commercial sector or biomedical industry, a research degree will leave you well placed to enter a high-level position.

Research at the Monash Biomedicine Discovery Institute (BDI)

The Monash BDI is part of one of the largest and most successful medical research hubs in Australia and the world. By pursuing research in biomedical science at Monash, you'll be part of the Monash BDI and have access to the exciting opportunities it has to offer.

The Monash BDI is home to world-renowned labs that undertake groundbreaking research on a range of areas within the biomedical sciences. You could join one of more than 120 internationally-renowned research teams and work on exciting projects such as stem cell research or the development of bionic eyes.

Your BBiomedSc will equip you to pursue a research degree in any of the Monash BDI's six disciplines:











Roles in Tertiary Education

A research degree can also be a pathway to education-focussed roles in tertiary institutions. For example, you could work as an education designer, lecturer or a teaching associate for a biomedical science course. In these roles you can help to improve the quality of tertiary teaching and course design, which ensures that students graduate with a high standard of skills and knowledge. In a tertiary education role, you can stay up-to-date with innovations in the biomedical sciences without needing to solely focus on conducting research yourself. You can also teach students directly, which allows you to use your knowledge of and passion for the biomedical sciences to inspire future leaders in the field.



MONASH BDI AT A GLANCE

-  **700** RESEARCHERS
-  **120+** RESEARCH GROUPS
-  **700+** PUBLICATIONS PER YEAR
-  **\$50m** ANNUAL RESEARCH INCOME
-  **\$14m** INDUSTRY FUNDING
-  Approximately **270** PhD STUDENTS
-  **200+** INTERNATIONAL RESEARCH COLLABORATORS
-  **TOP 50** TIMES HIGHER EDUCATION WORLD RANKING 2015/16

Graduate research opportunities

Honours

The Biomedical Science Honours program is one year in length and allows you to gain a broader understanding of the biomedical sciences and contribute new knowledge to the field.

The program consists of a significant research project and a coursework component. For your research project, you'll select and undertake a research topic from an area of biomedical science, working within a team and with ongoing support. At the end of the year, you'll report your findings to school or departmental staff and write a research thesis. If you have completed a BBiomedSc, you'll be able to choose an area of research from any of the biomedical science disciplines.

The Honours program will enable you to develop oral communication and data analysis skills, as well as advanced knowledge in your chosen research area. It can increase your employment opportunities, and you'll develop valuable skills including time management, working independently and effective communication. Completing Honours also helps you to determine if you want to pursue a career in research.

Master's Degrees

Master of Biomedical and Health Science

Discover how to conduct and commercialise your research with the Master of Biomedical and Health Science, and gain a highly sought-after professional skillset that can be applied in research and industry.

This course is unique in that it provides you with comprehensive, postgraduate-level knowledge of multiple disciplines within the biomedical sciences, while simultaneously allowing you to specialise in one of five areas:

- cancer biology and therapeutics
- cardiovascular disease
- infectious diseases and population health
- neuroscience
- regenerative medicine and stem cells.

With an employability focus from day one, you'll be trained in collaboration, professionalism and entrepreneurship. You'll also have opportunities to network with leaders in biomedicine and health sciences, and engage with industry.

A three-month internship will allow you to develop valuable professional skills and apply your knowledge in a research or industry-based workplace. You can choose from a selection of internship opportunities available exclusively to Master of Biomedical and Health Science students.

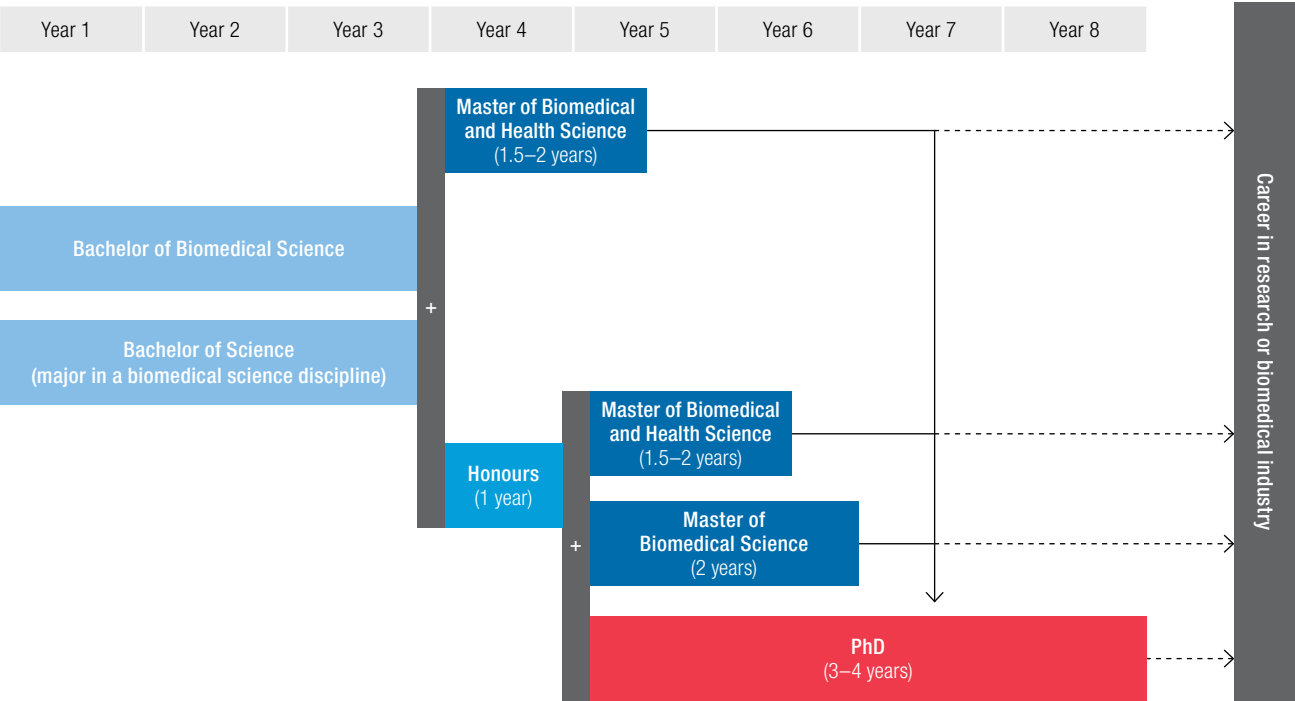
Other Masters Programs

- Master of Biotechnology
- Masters of Genome Analytics
- Master of Data Science.

PhD

A PhD in biomedical science at Monash enables you to make significant contributions to the field through original research. At the core of the program is an extensive, independent research project on an agreed topic, supported by at least two expert academic supervisors. This research component is enhanced by professional development activities or coursework units, which provide you with the skills required to make an impact in academia, government or the wider community. Completing a PhD can also open doors to high-level roles in biomedical industries.

RESEARCH PATHWAYS



ALUMNI PROFILE

PHILIPPE PHAN

Production Engineering Associate, GSK

Bachelor of Biomedical Science/Bachelor of Engineering (Honours) (2022)

I currently work for GSK (GlaxoSmithKline) as a Production Engineering Associate, which involves a wide range of activities that are aimed around driving continuous improvement of processes and machinery used to produce pharmaceutical products. My role involves a lot of daily problem solving of various smaller complications, whilst also working on developing longer-term solutions to improve manufacturing efficiency so that the site can meet its demand from global customers.

Every day on site is very different which always keeps me interested in the work I do. I get to collaborate with all different kinds of people such as manufacturing operators, maintenance fitters and product quality specialists just to name a few. Looking at the larger picture, I enjoy working in the pharmaceutical industry knowing that there are patients at the end of the supply chain all around the world who benefit from the life-saving medicines that we produce. This is highly motivating and drives me to act with integrity with the decisions I make daily.

How I got here

I have found my background in biomedical science to be helpful in understanding and appreciating the sometimes very rigorous protocols that are in place for ensuring drugs are manufactured in an aseptic environment, which is critical to product quality and patient safety.

What skills did Biomedical Science give you to enable your success in your current profession?

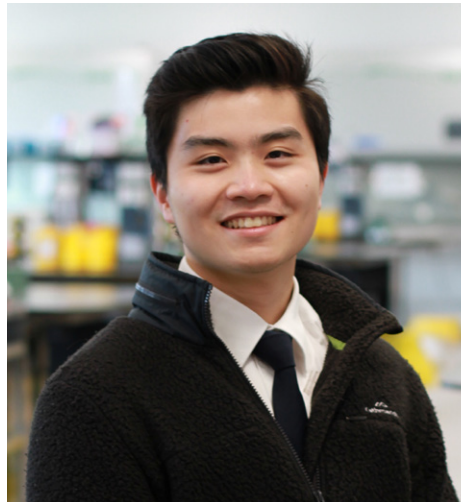
The numerous group assignments throughout the degree have helped me to develop skills necessary to work with a range of different people. The degree has also prepared me to effectively synthesise and express scientific information in a concise manner for those not familiar with the context.

Did you do any extracurricular activities that you believe have helped you to get to your current position?

Extracurricular activities have been an essential part in developing my skills beyond academia. I was involved in the Monash Biomed Society for two years, serving as Vice President (Academic) in 2020 which was obviously met with numerous disruptions which forced me to learn how to quickly adapt to change. I was then lucky enough to leverage my skills from being on a committee to being accepted into 180 Degrees Consulting, where I completed volunteer projects to solve complex problems for social impact organisations. These projects explored issues such as homelessness in Australia and delivering clean water for overseas communities.

What advice would you give to current Biomedical Science students who are considering your career path?

Networking and research! I've found that speaking to a variety of people in the health field to understand what they do and why they've chosen their particular career path to be super helpful in informing me about all the options that exist beyond the biomedical science degree. I would also recommend spending time searching up companies (big or small) that are within the pharmaceutical or biotechnology industry and gaining an understanding of what they actually do. From here you can start to see which companies align with your interests and start thinking where to look for or who to speak to about opportunities.



The Research in Action (3990) unit is a fantastic unit to take up. While it can be challenging, I believe that the exposure to research is a unique and important experience for an undergraduate student.

I gained many invaluable skills such as statistical data analysis, hands-on experimental experience and had one-on-one mentoring. This helped me be more confident in all my other units. I learnt how to critically evaluate research papers and write my own lab report. Furthermore, by participating and “doing” the science, it has made learning the content much easier. I found that I was more active and confident in my learning and was able to retain information better especially when it related to my research project. Finally, participating in 3990 has allowed me to form a positive, friendly relationship with my supervisors. I highly recommend it to anyone interested in doing research as a career or even just wanting a taste of research life.

—
**Aric Lim, 1st year student, Graduate Entry Medicine, Monash University
Bachelor of Biomedical Science (Scholars Program), 2017**

Research Opportunities for Undergraduate Students

Gaining research experience through a short-term program allows you to find out whether pursuing research is the right direction for you, before committing to an Honours year or Master’s degree.

Research in Action Units

Through the suite of Research in Action units, you can get a taste of the real research that takes place at the Monash Biomedicine Discovery Institute. These elective units involve a research project undertaken over 12 weeks. You’ll develop skills in project management, oral and written communication, and critical thinking and analysis. You’ll also experience what it’s like to work as part of a research team in a professional laboratory.

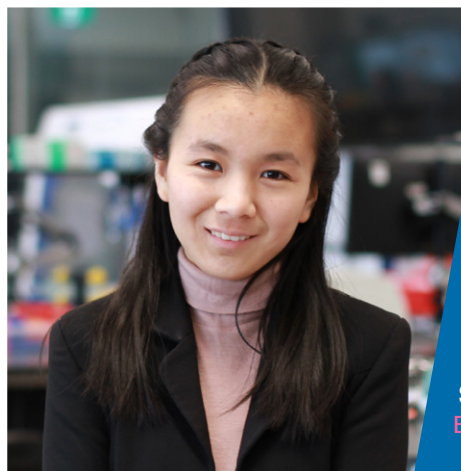
Summer and Winter Vacation Program

Monash summer and winter research scholarships

Summer and winter research scholarships involve a placement in a Monash research lab. This is a great way to gain first-hand insight into a career in research during the university holidays.

Integrative biomedical science practical experience

Our intensive practical elective unit, BME3030, will give you the opportunity to work in research teams and to be mentored by a Monash BDI researcher. You’ll get your own research project and develop skills in experimental design, ethical conduct, data analysis, communication and research techniques. End the experience with a mini-conference in front of your peers, academics and researchers. The unit will also highlight research careers pathways in academia, research institutes and industry.



The highlight of my time during BME3030 was undertaking research techniques I have never done before in small groups. As a group of 3 working together for 4 weeks consecutively, we had enough time and contact hours to form strong bonds. This helped in fostering a supportive teamwork environment as team members will share their previous experiences to benefit your learning progress. I loved the interactions we had in the lab and with the teaching associates and lab heads. One of the important qualities I developed was self-confidence to undertake experiments and data analysis that I haven’t done before. The teaching environment was highly supportive where all the laboratory heads and teaching associates were directly involved in pharmacology research. I recommend BME3030 to other students because I had no regrets spending my Winter break at Monash uni and the experiences I gained are invaluable.

—
**Supitchaya Watakul, 3rd year student
Bachelor of Biomedical Science (Scholars Program)**

CAREERS IN NON-BIOMEDICAL INDUSTRIES

Studying a Bachelor of Biomedical Science double degree allows you to develop high-level analytical and problem-solving skills that qualify you for a wide range of graduate careers. There are opportunities in each double degree discipline for careers that will combine your two areas of interest and allow you to draw on knowledge gained in both degrees.

Commerce

For BComm/BBiomedSc double degree students, there are numerous opportunities for graduate careers in commerce disciplines that will also allow you to pursue your interest in health and biomedical science. For example, you could work in roles in marketing for a pharmaceutical company, or business development related to the healthcare sector.

Many commerce graduate programs also accept applications from students who have completed an undergraduate degree in a discipline other than commerce, meaning that you can apply with a BBiomedSc single degree. In many commercial careers, such as strategy or management consulting, you’ll be able to apply the problem-solving skills you’ve gained in your studies of biomedical science.

Law

There are several areas of law in which your degree in biomedical science will be an asset, or even a prerequisite. These areas may include patent law, public health law and forensic law. Pharmaceutical companies, government regulatory bodies like the Therapeutic Goods Administration (TGA) and law firms specialising in patents for medical technology will all be interested in your skillset. To practise as a lawyer, you’ll need to follow the process for admission by the Supreme Court of Victoria.

Engineering

The intersection of engineering and biomedical science is an area of high job growth that offers opportunities to develop biomedical innovations that improve lives. Advances in biological sciences and demand for technological solutions are creating new opportunities for engineers. In the coming decades, engineering will be transformed as it fuses with developments in biomedical science.

The work of biomedical engineers is varied. For example, they might design, test and develop a range of medical devices such as artificial internal organs and prosthetic limbs. They may also design software that runs medical equipment, or carry out computer simulations to test new drug therapies. To work as an engineer, you’ll need to follow the process for accreditation.



My role is in healthcare information technology which is heavily interconnected with the Australian healthcare system. It involves analysing clients’ workflows and configuring, implementing and conducting training for electronic medical record software for healthcare providers.

I chose this job because it allows me to draw on my interests in both biomedical science and commerce. What I like most about my job is the opportunity to communicate with clinicians on a daily basis to see how Cerner’s electronic medical record software can best be customised for their needs. I am sure in the near future the work I have done will impact people’s lives.

The highlight of my career so far has been travelling to Cerner’s Headquarters in Kansas City for five weeks as part of the Consulting Academy. It was an awe-inspiring experience to see the technologies a market-leader has developed and the new technologies it is currently developing.

—
**Cody Yuen, Associate Consultant, Cerner Corporation
Bachelor of Commerce (Economics)/Bachelor of Biomedical Science (2017)**



ALUMNI PROFILE

LIANA GOODINGS

Digital Project Manager, L'Oreal

Bachelor of Biomedical Science/Bachelor of Science (2013)
Honours Degree of Biomedical Science (2014)

Digital Project Manager at L'Oreal. I work to organise a team of people to deliver websites and system updates. These websites let people shop online and buy the products they know and love in the convenience of their own home. I also love working with products that I am passionate about (makeup, skincare etc). It's an interesting role, where every day there is a new problem to solve. One minute you are configuring the website and creating new product pages, the next you are discussing with developers what they need to build, and the next you are testing everything works. I find it really satisfying to have an output at the end of your efforts - be it a new website for users, or a more efficient process.

It's very dynamic - no two days are the same.

How I got here

I have an unusual career path. After finishing my Honours at Monash - I moved to London to work in a developmental biology lab at UCL. I worked there for 2 years, then came back to Australia. Personally, I didn't have a passion to pursue a PhD and to progress down the research path, so was looking at what else was out there. Accenture was taking people with STEM degrees, so I thought, why not? I applied and got in. Within the role I worked as a Business Analyst. My first task was to interview people and write down what they do. The company worked like a virtual construction line, where one person wrote down the customer order and submitted it, and then next received the order and sent off the equipment etc. All I had to do was write it down.

What skills did Biomedical Science give you to enable your success in your current profession?

Critical thinking, Analytical problem solving and the ability to question.

Did you do any extracurricular activities that you believe have helped you to get to your current position?

In my final year of undergrad, I was accepted into the Undergraduate Research Opportunities Program (UROP). With this program, I was placed in the Peter Currie Lab at ARMI. I really enjoyed learning about Zebrafish and learning lab techniques including cryostat sectioning and Immunohistochemistry. I ended up doing my honours in this lab. Once graduated, I wanted to move overseas and work internationally to further my career. Fortunately, through connections in the lab, I was put in touch with Zebrafish researchers at UCL in London, and was successful in a role in their lab as a Research assistant. I loved it so much that I stayed in London for two years.

What advice would you give to current Biomedical Science students who are considering your career path?

Medicine and research are not the only career options out of Biomed. The others may not be as obvious, but they definitely exist!

Did you consider any other career pathways and why?

Yes - initially was considering research when moving to London to work as a Research Assistant. However, I didn't have the motivation to do a PhD and could not see myself doing it long term. I am glad that I changed and love what I do now.



ALUMNI PROFILE

NICOLE TJAHJA

Senior Consultant
EY

Bachelor of Biomedical Science/Bachelor of Commerce (2019)

I am a consultant in EY's Business Consulting team with a focus in the health and human services industry. As consultants, we advise and support our clients to solve business problems and strategically plan for their future. My role is continuously evolving, and I have evaluated programs, developed project management frameworks, supported the development of public policy, designed and implemented digital solutions and co-designed business strategies with our clients regarding the future of digital, virtual care and the overall direction of the business in the future. EY has also provided the opportunity for me to gain insights and work across many industries across the public and private sector including Fast Moving Consumer Goods, freight and logistics, and telecommunications sector.

Consulting has allowed me to learn and experience so many different things in such a short amount of time. No two projects are ever the same, and every day brings a different and exciting challenge. It is also a privilege that the effect of our work helps our client impact the health industry at a large scale, which flows through to the population. Unlike clinicians who meet patients individually, our work in the background aims to transformation how healthcare is delivered to empower health professionals and improve patient outcomes. The people I work with are all very driven, kind, and supportive. They make work fun and it's amazing to see what we've accomplished as a team.

How I got here

During my time at Monash, I was involved in many different clubs and societies, notably student consulting groups which provide free services to non-profit organisations. This opportunity opened my eyes to the world of consulting and inspired me to apply for internships to learn more about professional services. Fortunately, I received an offer at EY and truly enjoyed the work and the people. After the internship, I returned to the Graduate program and have been there ever since!

What skills did Biomedical Science give you to enable your success in your current profession?

The Biomedical Science degree expanded my perspective on what 'health' and science is, as we often view it in a micro level (literally). Health and human services are so much broader than the reactions happening in your body – it is a holistic view that extends from one-on-one clinician to patient interactions and includes areas such as public and population. The degree also taught me how to communicate complex concepts in a way that is simple and easily understood and practical skills such as time management, report writing and how to pronounce complicated latin words.

Did you do any extracurricular activities that you believe have helped you to get to your current position?

I was very involved in clubs and societies during my time at Monash which allowed me to gain practical skills, increase my confidence and network with other students and industry professionals. The clubs I was mostly involved in were Monash SEED and Impetus Consulting Group which aims to raise awareness and make a positive impact to non-profit organisations. I highly recommend joining these clubs.

What advice would you give to current Biomedical Science students who are considering your career path?

The area of study you choose should not define and limit the opportunities you take. Don't be afraid to explore careers that are outside your "traditional pathway" as many non-science related industries are looking to expand into the health sector and are increasingly looking for people with STEM backgrounds to bring fresh perspectives. We have a unique opportunity as the traditional delivery of healthcare as we know, is changing. Non-traditional players, such as retail giants, tech companies and private equity firms, are entering the health landscape and transforming how people can receive health. Take the opportunity to explore what health related careers can be found outside of science,

Did you consider any other career pathways and why?

Yes, initially I wanted to become a health professional / clinician (e.g. doctor, dentist physio), however after completing a four year degree I wanted to gain work experience before committing to further study.



GRADUATE STUDY OPTIONS

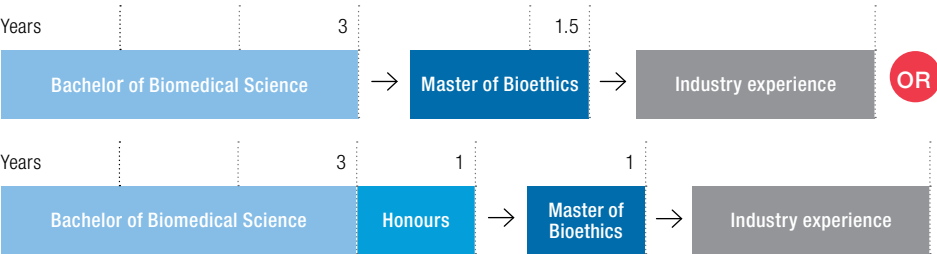
As a biomedical science graduate, you have access to a range of graduate pathways, both at Monash University and at other universities. A sample of options is provided below.

Monash Postgraduate Pathways

Please note that all details are correct at the time of writing but are subject to change. To see the most recent course details, please visit monash.edu.au/study/courses.

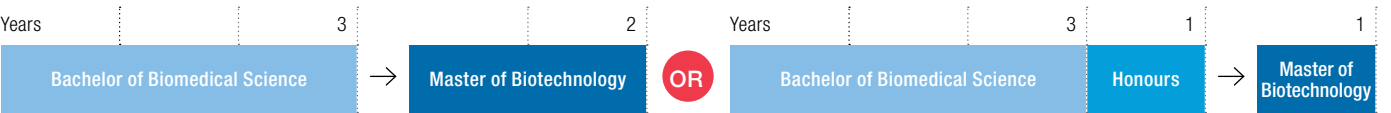
Bioethics Policy Advisor

Is the genetic enhancement of humans ethically justified? Should we proceed with research trying to clone people? As a bioethics policy advisor, your work could involve giving healthcare professionals or policymakers advice about perplexing ethical questions like these.



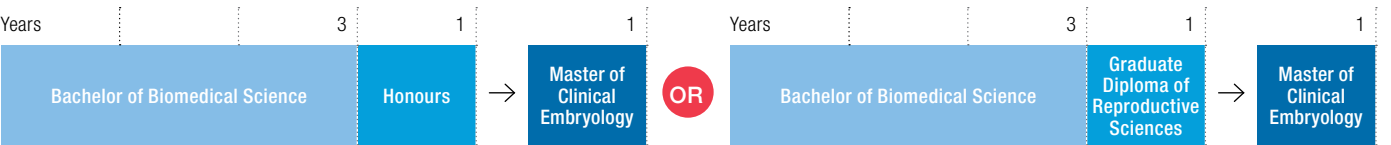
Biotechnology Entrepreneur

Biotechnology entrepreneurs translate scientific breakthroughs into products or services. They are often involved in obtaining research funding and identifying gaps in the market where there is demand for new biotechnologies. As a biotechnology entrepreneur, you can make lasting changes to human healthcare by commercialising research and making biomedical innovations accessible to the public.



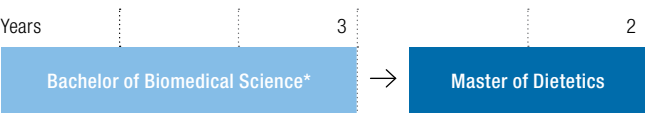
Clinical Embryologist

Clinical embryologists assist in treating fertility problems in laboratories. By completing a Master of Clinical Embryology, you will be trained to use all assisted reproductive technologies, such as IVF. A clinical embryologist's tasks often include sperm and embryo handling and assessment, as well as IVF and cryopreservation techniques, including vitrification of gametes and embryos.



Dietician

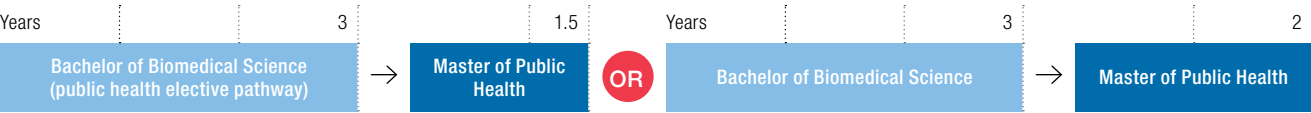
As a dietician, you can use your knowledge of the biosciences to help people to understand the relationship between health and nutrition. Dietitians educate both individual patients and the general public about optimising dietary intake, which can improve health and wellbeing on a large scale. You could work as a private practitioner, a medical and surgical dietician or in public health nutrition.



*must include NUT1011 as an elective

Epidemiologist

Epidemiologists research, monitor and analyse the prevalence of diseases within populations. They often educate the public about diseases, and may work to identify environmental and genetic risk factors that lead to certain diseases. Epidemiologists also provide insights to government departments and policy makers about how infectious outbreaks can be contained and prevented.



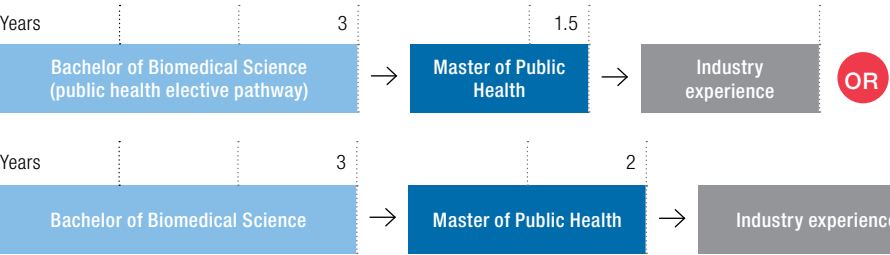
Forensic Scientist

At the intersection of medicine and the law, forensic science allows you to apply your knowledge of biomedical science in the interests of justice. Forensic scientists can prove the existence of a crime or the identity of its perpetrator by examining and interpreting physical evidence.



Health Promotion Manager

A career in health promotion management could see you tackling today’s greatest problems in population health. You could improve human health on a large scale by working in a leadership role at a hospital, for a government health department or for a non-government organisation like the World Health Organisation or the Red Cross.



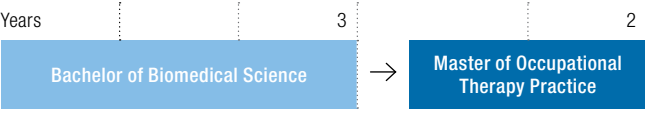
Nurse

Nurses are an integral part of any health system. Typical nursing duties include providing pre- and post-treatment care, monitoring and administering medication and supporting patients and relatives through the treatment process. You can choose to work in a number of specialty areas – such as acute care, paediatrics and medical-surgical nursing.



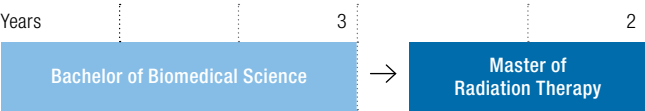
Occupational Therapist

As an occupational therapist, you can help people of all ages to overcome barriers preventing them from fully participating in everyday life. You could work in private practice, at a school or for social services to help people overcome issues caused by illness, ageing, developmental delay or psychological difficulties.



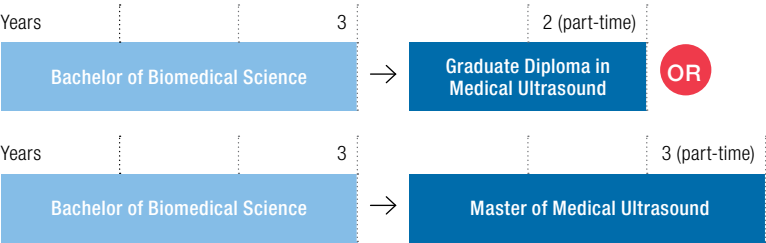
Radiation Therapist

Radiation therapists design and deliver treatments using ionising radiation for patients with cancer or benign conditions. They use advanced computer systems to maximise dose to the affected area and minimise radiation to surrounding healthy tissues. A career as a radiation therapist allows you to use your scientific and technological expertise while also being involved in patient care.



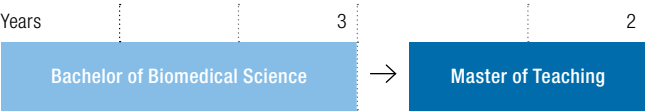
Sonographer

Sonographers conduct diagnostic medical ultrasound examinations using a range of equipment to produce records of anatomical structures and pathophysiological data, which can be used for a wide range of clinical applications. Sonographers plan and tailor the ultrasound examinations depending on their findings and the purpose of the examination.



Teacher

Do you want a career that allows you to share your expertise in biomedical science to inspire future generations? Teaching is a rewarding career path that will allow you to use your knowledge of biomedical science (or another discipline) to educate students. You can choose to specialise in early childhood, primary or secondary education – or a combination of these.





Accelerated Pathway to the Master of Public Health

A Monash Master of Public Health (MPH) equips you with the knowledge and practical skills in research, analysis and communication that are vital to solving global health challenges. Whether you want to work in health promotion and policy, epidemiology, medical research or the pharmaceutical industry, the MPH will help you excel and progress.

The accelerated pathway to the MPH tailors your BBiomedSc towards public health, allowing you to gain credit towards the Master's degree during your undergraduate studies. By choosing the elective units outlined in the course map below, you'll set yourself up for an accelerated 72-point entry pathway that reduces your MPH to one and a half years full time.

Year 1 Semester 1	BMS core unit	BMS core unit	BMS core unit	Elective
Year 1 Semester 2	BMS core unit	BMS core unit	BMS core unit	Elective
Year 2 Semester 1	BMS core unit	BMS core unit	BMS core unit	Public health elective
Year 2 Semester 2	BMS core unit	BMS core unit	BMS core unit	Public health elective
Year 3 Semester 1	BMS core unit	BMS core unit	Public health elective	Public health elective
Year 3 Semester 2	BMS core unit	BMS core unit	Public health elective	Public health elective

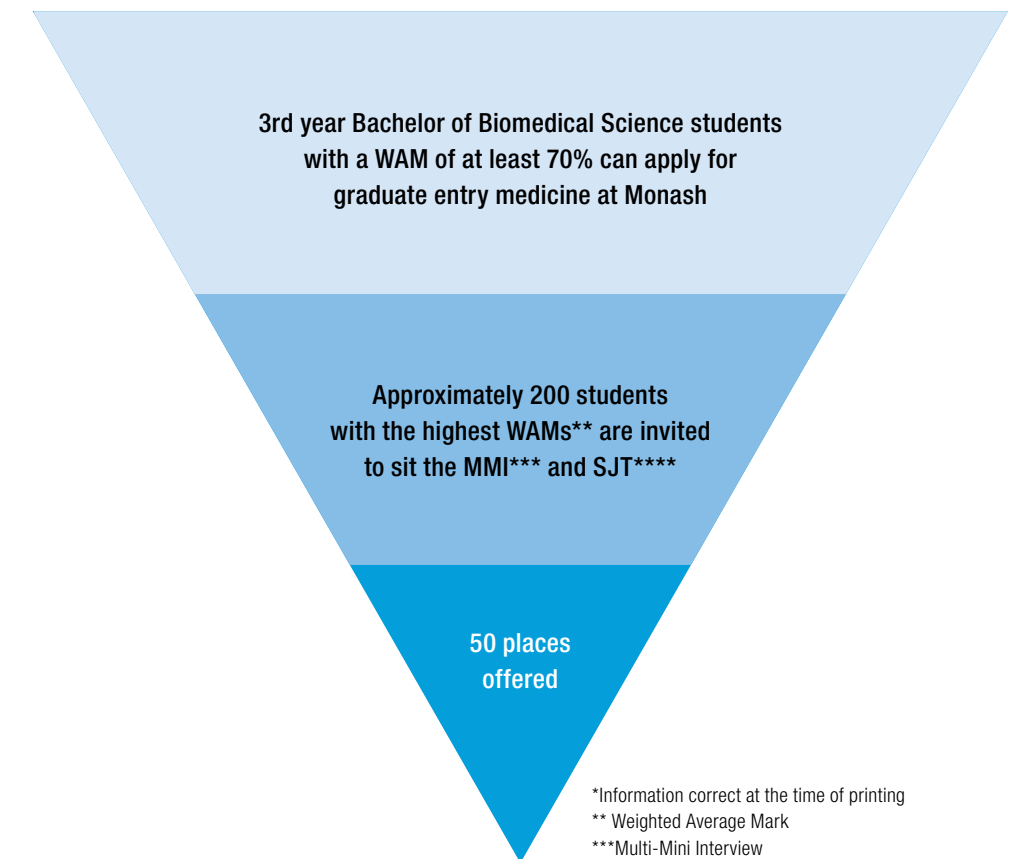
Graduate Entry Medicine

Our BBiomedSc prepares students for a successful career in medicine. Emerging from the degree with a sound understanding of the human body, excellent scientific practice skills and a strong work ethic, our graduates are well placed to handle the challenges of a graduate entry medicine course. In addition to the Monash Graduate Entry Medicine program, BBiomedSc graduates are eligible for medicine programs offered at other universities in Victoria and interstate.

Monash Graduate Entry Medicine

The Monash BBiomedSc offers a direct pathway into the Monash Graduate Entry Medicine program. There are 50 places in the program that are reserved for BBiomedSc graduates, and these places are highly competitive. Successful applicants do not need to sit the GAMSAT.

Pathway from BBiomedSc to Graduate Entry Medicine*



*Information correct at the time of printing
 ** Weighted Average Mark
 ***Multi-Mini Interview
 ****Situational Judgement Test



I believe that coming from Biomedical Science has equipped me with a multitude of knowledge and skills to help succeed in graduate medicine. Academically, the biomedical science degree lays the foundations for knowledge in pharmacology, anatomy, physiology and many other basic sciences over the course of three years. This helps lessen the steep learning curve for Graduate Medicine which undergraduate medical peers may face as they need to learn all the theory plus the clinical content within 2 years. I found that studying Biomed helped me adjust to university life and taught me invaluable study skills that helped set me up to excel in graduate medicine.

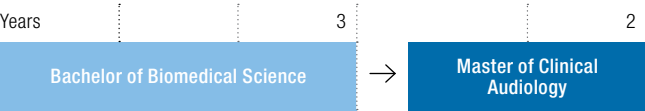
—
Connor Burley, 2nd year student, Graduate Entry Medicine, Monash University
 Bachelor of Commerce/Bachelor of Biomedical Science (2016)

Other Postgraduate Pathways

Please note: as these professional pathways are not offered by Monash University, this guide can only provide a general indication of the length and details of the relevant postgraduate courses. To find specific entry requirements and course details, please visit the websites of universities around Australia where relevant courses are offered.

Clinical Audiologist

Clinical audiologists examine and evaluate patients’ hearing ability and balance. They identify causes of hearing problems, as well as planning and delivering treatments to assist patients to manage, improve and preserve their hearing. Clients can range from the very young to the very old. Clinical audiologists may work in a variety of settings such as hospitals, private clinics or education centres.



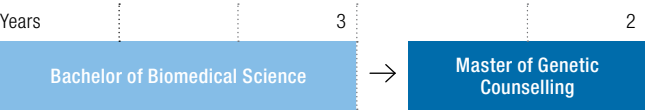
Dentist

Dentists prevent, diagnose and treat diseases and injuries of the teeth, jaws and mouth. Their tasks may include repairing tooth decay, preventing tooth and gum disease, extracting teeth and educating patients about oral hygiene. There are opportunities to work in public or private practices, and to specialise in fields such as orthodontics, endodontics and prosthodontics.



Genetic Counsellor

Genetic counsellors work in multidisciplinary teams to diagnose, manage, predict and screen for genetic disease. As a genetic counsellor, you’ll use your communication skills to support patients affected by genetic conditions and their families. You’ll use your knowledge of human genetics to interpret test results and explain these to patients. A genetic counsellor’s tasks also include analysing family history information and assessing the risks of inheriting or passing on a medical condition.



Veterinarian

If you love animals and want to improve the standard of healthcare they receive, a career as a veterinarian could be for you. Veterinarians diagnose, prevent and treat the illnesses and diseases seen in animals. This can include conducting tests, prescribing medication or therapy and performing surgery. Veterinarians also work closely with owners to ensure that the care they provide is of a high standard, and have the option of specialising in a particular field of veterinary medicine.



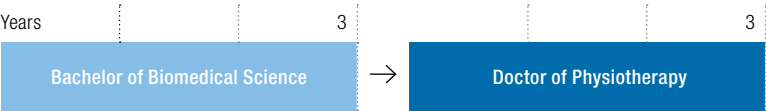
Optometrist

Optometrists detect, diagnose and treat eye diseases. Optometry is a primary healthcare profession, meaning that optometrists work closely with patients and the community. Their main focus is generally to prescribe glasses and contact lenses, and to educate patients about maintaining their optical health.



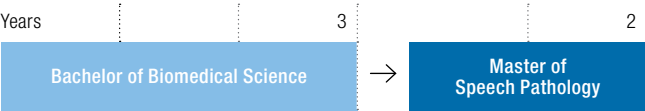
Physiotherapist


Physiotherapists identify, diagnose and treat musculoskeletal conditions. They primarily use techniques to strengthen muscles and manipulate joints to improve mobility. Physiotherapists can work in a range of environments such as hospitals and private practices, and have opportunities to specialise. Their tasks could include helping a patient relearn to walk or treating players from a sporting team.



Speech Pathologist

Speech pathologists assess, diagnose and treat various communication disorders in both children and adults. They commonly address issues of speech, language, fluency and using voice. Speech pathologists often work with children who have failed to develop normal communication, adults who have acquired communication difficulties as a result of disease or injury, and people with certain disabilities that affect their ability to communicate.





I have always been interested in healthcare and science, as well as doing something hands on. I’m not someone who would be happy to be cooped up in an office all day, so dentistry allows me to interact with people on a daily basis, and to build long-term relationships with patients. Dentistry is also very creative – sometimes it seems like an art class, which makes it a fun and innovative career choice because every day and every patient is different.

I would definitely urge you to consider dentistry, especially if you feel like the medicine pathway isn’t really your thing. It’s quite similar in many regards but is more hands on, especially in the early stages. We start seeing patients quite early on, which gives you a chance to see whether dentistry is definitely for you. If you’re really interested, it might be a good idea to find a casual job as a dental nurse or assistant in a private practice, as this would give you an idea of what a career in dentistry is like.

Biomed helps enormously for a lot of the background information that we learn in the first couple of years of dentistry. You don’t learn a huge amount about teeth specifically in biomed, but learning the underlying basics, such as anatomy, cardiology, pharmacology and nutrition, definitely gave me an advantage. An undergraduate degree also gives you the skills to study efficiently and have a good work life balance, which is really important for dentistry as it can be quite full on.

–
Natasha Nichols, 2nd year student, Doctor of Dental Surgery, University of Melbourne Bachelor of Biomedical Science (2016), Monash University

GLOBAL CAREERS

Your BBiomedSc opens up a range of possibilities for international work and study. During your studies, you can go on exchange for a semester or do a short-term international study program, all while earning credit towards your degree. After graduating, you might choose to work in another country or to pursue a Master's degree, PhD or postdoctoral research at a university overseas.

As part of the Career Success Coaching program, Career Connect runs workshops on finding a job in the following regions:

- Asia
- North America and Canada
- the UK, Europe, Middle East and Africa.

Exchange and Study Abroad

Going on exchange during your undergraduate degree can help you build an international network and increase your awareness of work and study opportunities overseas. If you already have a country or region of interest, look into relevant exchange or study abroad opportunities and start planning early!

Postgraduate Study Overseas

As a Monash biomedical science graduate, you'll be eligible for a wide range of postgraduate study options at institutions overseas. Many universities around the world offer high-quality programs, which are increasingly taught entirely in English. Degree types, eligibility requirements and application processes vary among countries, so you'll need to refer to university or country-specific websites.



ALUMNI PROFILE

DR STEPHANIE TANAMAS

Epidemiologist, World Mosquito Program
Monash University

Bachelor of Biomedical Science (2007)
Honours degree in Biomedical Science (2008)

Working as an epidemiologist involves a good mix of operational work, such as helping research studies run smoothly, and data analysis.

My current role is to assess the impact of the World Mosquito Program's Wolbachia intervention on reducing the number of people who are infected with dengue fever, chikungunya or Zika in the countries in which we operate.

One of the things I like most (and sometimes least) about my current job is that I'm required to travel to the 12 countries where our program operates. Working with international collaborators and stakeholders allows me to experience and learn from different cultures and different ways of thinking, and to build on the soft skills that are necessary for such interactions. However, the long waits at airports and sitting on planes is less fun.

Prior to my current role, I held a position as a Visiting Fellow at the National Institutes of Health in the USA. It was a fantastic experience that allowed me to learn from leading scientists in the field of diabetes epidemiology.

How I got here

During my Bachelor of Biomedical Science I decided that I didn't enjoy working in a lab, so when the time came to choose what to do for my Honours year, I decided to try epidemiology. I've now been working as an epidemiologist since 2011. Biomedical science exposed me to a wide range of disciplines from which I was able to learn what I did and did not like, and this eventually landed me on my current career path. I learned that it's OK to not always know where you want to go, as long as you are open to trying new things.

My advice to current students

I recommend that students who want to have a global career start networking early. Go to career nights and chat with people from the industry you want to work in. Also talk to your lecturers, tutors and research supervisors. They may have international collaborators with whom they can connect you, or they might keep an eye out for suitable opportunities for you. Doing a Master's, PhD or postdoc overseas is also a good way to start.

General tips:

- Network! Make yourself known to your lecturers, tutors and people working in areas you potentially want to work in. These people can help you launch your career.
- Academia is not the only career option.
- Build on as many skills as you can. You never know what will be useful later and how. For example, presenting in class is something most students hate, but it's good practice for becoming an effective communicator, which is a very important skill for scientists.
- Monash provides a lot of resources to help you through your studies and there are a lot of people who you can go to for support and advice. Get to know them.
- Lastly, enjoy yourself!

RESOURCES

Core Employability Skills

Monash Career Connect – improving employability:
monash.edu/career-connect/jobs/employability

Building Employability Skills

Leap into Leadership Online:
monash.edu/students/leadership/leap

Vice-Chancellor's Ancora Imparo Leadership Program:
monash.edu/students/leadership/ancora-imparo

Access Monash Mentoring Program:
monash.edu/access/mentoring

Monash Career Gateway job search portal:
<https://careergateway.monash.edu.au/students/login>

Volunteering at Monash portal:
monash.edu/volunteer

Communicating Your Skills To Employers

Monash Student Futures platform:
monash.edu/student-futures

Monash Career Success Coaching:
<https://www.monash.edu/students/future-work/career-connect>

Monash Career Connect – preparing for job interviews:
monash.edu/career-connect/jobs/apply/interviews-assessment

Research Opportunities For Undergraduate Students

Monash Summer and Winter Research Scholarship Program:
monash.edu/students/scholarships/current/research-projects

Undergraduate Research Opportunities at Monash:
<https://www.monash.edu/students/future-work/undergraduate-research>

Global Careers

Monash Career Gateway – browse and register for workshops:
<https://careergateway.monash.edu.au/students/login>

Monash Abroad – information about exchange and study abroad:
monash.edu/study-abroad



FURTHER INFORMATION

Monash Biomedicine Discovery Institute

monash.edu/discovery-institute

facebook.com/MonashBDI

twitter.com/MonashBDI

Faculty of Medicine, Nursing and Health Sciences

monash.edu/medicine

instagram.com/monash_mnhs

twitter.com/monash_fmnhhs

youtube.com/MonashUniFMNHS

Monash University

monash.edu

facebook.com/Monash.University

instagram.com/monash_uni

twitter.com/MonashUni

youtube.com/monashunivideo

Find a course

monash.edu/study/courses

Handbook information

monash.edu/pubs/handbooks

Scholarships

monash.edu/study/fees-scholarships/scholarships

FUTURE STUDENT ENQUIRIES

Australian citizens, permanent residents and New Zealand citizens

monash.edu/study

Phone: 1800 MONASH (1800 666 274)

Email: future@monash.edu

International Students

monash.edu/international

Phone: 1800 181 838 (within Australia)

Phone: +61 9903 4788 (outside Australia)

Email: future@monash.edu