

What can I do with a Degree in Life and Social Science?



Bachelor of Science (Z0416) (*Before 2010, Z046)
 Bachelor of Science (Biomedical Sciences) (Z0416BMS)
 Bachelor of Science (Biomedical Sciences) (Honours) (S066)
 Bachelor of Science (Honours) (Z0466)

2011

Please note: the information contained in this document was current as of January 2011. Refer to www.swinburne.edu.au/courses/ for the most current updates.

For entry and admission requirements for the above courses, go to the Swinburne website <http://courses.swinburne.edu.au/courses>

What can I do with this degree?

Careers in biomedical science include the academic and research fellowship pathways in university departments, research institutes and hospitals. Graduates are also employed in technical and scientific positions on research projects funded by the National Health and Medical Research Council and other agencies (governmental and private). Employment is also possible in biotechnology companies developing and marketing reagents and kits for medical diagnosis or in laboratory work in molecular and cellular biology. Biomedical science also provides excellent preparation for entry into graduate medical degrees or postgraduate degrees in pharmacy.

The Biomedical Science major may allow students to apply for membership of the Australian College of Physical Scientists and Engineers in Medicine (ACPSEM).

Graduates may find employment in the following areas:

Audiology

Graduates will need to undertake a two year postgraduate program (masters) in audiology from a tertiary institution in order to qualify for registration as an audiologist.

Echocardiography technologist

Graduates with a background in physiology begin in a trainee position in a hospital and undertake further training in sonography.

Forensic scientist

Graduates with a strong background in either chemistry or molecular biology may obtain positions in forensic laboratories.

Graduate entry to medicine and other health related courses

A biomedical science degree prepares the student for graduate entry to a number of courses, including medicine, dentistry, and physiotherapy.

Graduate entry into Nutrition and Dietetics

Monash allows graduate entry into the nutrition and dietetics course for students with a background in biomedical science.

Health promotion

Graduates may obtain positions in local council, government, hospitals or independent health associated groups.

Laboratory scientists, including hospital and forensic laboratories graduates may enter these positions without any further study or after the completion of an honours program.

Medical research in universities and research institutions

On completion of an honours year, graduates may obtain a position as a research assistant in a number of university, hospital and research institution laboratories. Further study towards a Doctor of Philosophy (PhD) will allow the biomedical graduate to pursue a career as a medical research scientist.

Occupational health and safety

Graduates will need to complete a further qualification in occupational health and safety before entering these positions.

Patent and trademark attorney

Graduates will need to complete a doctorate in an area of biomedical science or biotechnology and pursue a further qualification in patent and trademark law before entering these positions.

Pharmaceutical and product manufacturers

Graduates may enter these positions without any further study or after the completion of an honours program. After some years of work experience, further study in business and/or marketing generally enhances the graduate career opportunities in these areas.

Public health and health promotion

Graduates will need to complete a further qualification in public health before entering these positions

Science journalism

Graduates in biomedical science may find employment in science journalism. Graduate courses are available to give a formal training in this area.

Sleep/respiratory technologist

Graduates with a background in physiology obtain on the job training in hospital sleep or lung function laboratories.

What industry sectors do Humanities graduates work in?

Private	57%
Education	9.5%
Health	2.1%
Other	14.1%
Government	17.4%

Source: <http://svc095.wic026v.server-web.com/gradsonline/>

The skills and attributes required by Bachelor of Biomedical Science graduates

- Understanding of the factors and processes which contribute to human health and disease.
- Ability to analyse, interpret and critically evaluate biomedical data.
- Laboratory skills and knowledge of planning and designing experiments.
- Ability to design research protocols and use statistical techniques to enable valid analysis and interpretations of experimental results.
- Knowledge of human anatomy and physiology, biochemistry, molecular genetics, immunology and microbiology.

Swinburne Graduate Attributes

- Capable in their chosen professional, vocational or study areas
- Entrepreneurial in contributing to innovation and development within their business, workplace or community
- Effective and ethical in work and community situations
- Adaptable and able to manage change
- Aware of local and international environments in which they will be contributing (eg socio-cultural, economic, natural)

What do Humanities graduates do after finishing their courses?

Working	75.9%
Searching	24.9%
Studying	30.2%

Please note: These figures include combinations of activities i.e. graduates who are searching for employment while also undertaking postgraduate studies.

Source: <http://svc095.wic026v.server-web.com/gradsonline/>

Job Prospects for Science (Biomedical Science) Graduates will depend on the majors that they have completed. For specific information regarding employment prospects for alternate occupations please see

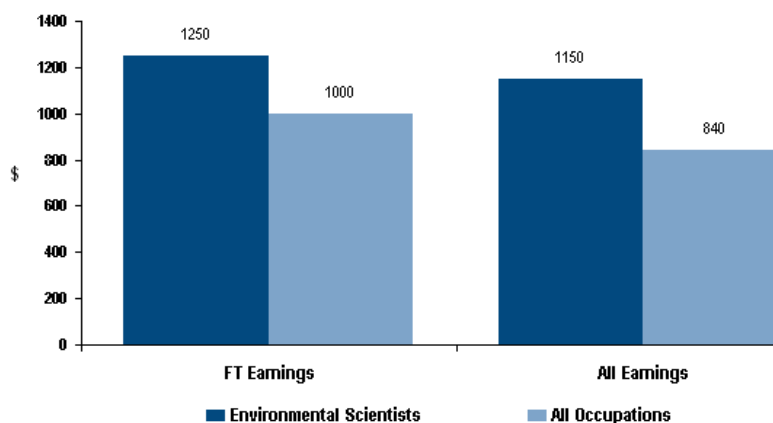
<http://jobsearch.gov.au/Careers>

Job Prospects for Life / Biological Scientists

- Job prospects for Life Scientists are good.
- Employment growth for Life Scientists to 2014-15 is expected to grow strongly. Employment in this small occupation (8800 in November 2009) increased slightly or remained steady in the past five years, and rose slightly in the long-term (ten years), but with small occupations employment estimates can fluctuate.

Source: Australian Government job search <http://jobsearch.gov.au/Careers>

Life / Biological Scientists Weekly Earnings (full time and before tax)



The graph shows weekly earnings - for full-time work and before tax - for workers of all ages for this occupation, compared with all occupations. These figures cannot be used in determining a particular wage rate or as an indication of what a particular person will earn in that job.

Source: ABS EEBTUM survey August 2009 cat. no. 6310.0.

Source: Australian Government job search <http://jobsearch.gov.au/Careers>

Examples of employers who employed Swinburne Science (Biomedical Science) graduates in 2010

Austin Health www.austin.org.au (Sleep and Respiratory Scientist)	Necelus Network www.necelusnetwork.com.au (Clerical Unit Assistant)	The Royal Women's Hospital www.thewomens.org.au (Biomedical Engineer)
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Melbourne Pathology
www.mps.com.au
(Cleric)

Additional employers who have recently employed Swinburne Science (Biomedical Science) graduates

Alfred Hospital www.alfred.org.au	Eastern Health – Box Hill Hospital www.easternhealth.org.au	Southern Health – Monash Medical Centre www.southernhealth.org.au
Barwon Health www.barwonhealth.org.au	Murdoch Childrens Research Institute www.mcri.edu.au	St Vincent's Hospital www.svhm.org.au
Chemworld Pharmacy www.chemworld.com.au	Royal Surrey County Hospital (UK) www.royalsurrey.nhs.uk	

Potential Employers

Careers & Employment have put together a list of potential employers
www.swinburne.edu.au/corporate/careers/employers_by_occupation.html

You can also refer to Graduate Career Australia's publication Graduate Opportunities
www.graduateopportunities.com/

Specialist Recruitment Agencies

Swinburne Careers and Employment Recruitment Service

www.swinburne.edu.au/careers

- Hahn Healthcare Recruitment www.hahnhealthcare.com.au
- Kelly Scientific Resources www.kellyscientific.com.au
- Pharmaceutical Professionals www.pharmaceuticaljobs.com
- Techstaff www.baysidegrp.com.au
- Biotech Recruitment www.biotechrecruitment.com.au
- Science People www.sciencepeople.com.au
- Sydney Health Recruitment www.sydneyhealth.com.au

Specialist Job Search Websites

- www.aacb.asn.au
- www.asbmb.org.au
- www.bioinnovationsa.com.au
- <http://biologyjobs.com>
- www.biophysics.org.au
- www.csiro.au
- www.ebcrc.com.au
- www.newscientistjobs.com.au
- www.researchjobs.net.au
- www.sciencejobs.com/splash.action
- www.sciencepeople.com.au
- <http://scientistsolutions.com>

Professional Associations

Professional associations may conduct conferences, seminars, presentations and social functions to help members keep abreast of current practices and for networking purposes. For students, these events can be an excellent source of contacts and relevant information. Membership is usually open to students at a reduced rate.

Australian College of Physical Scientists and Engineers in Medicine www.acpsem.org.au

Australian Institute of Medical Scientists www.aims.org.au

Australian Chinese Associations for Biomedical Sciences www.acabs.org.au

Additional general employment sites

- www.careerjet.com.au
- www.careerone.com.au
- www.graduateopportunities.com
- www.jobsearch.com.au
- www.jobsearch.gov.au
- www.mycareer.com.au
- www.myfuture.edu.au
- www.seek.com.au
- www.simplyhired.com.au
- www.unigrad.com.au

Postgraduate study options

A range of postgraduate programs for Biochemistry and Chemistry students are offered at Swinburne University. Programs are offered as a nested suite, offering students that opportunity to exit at the graduate certificate, graduate diploma or master stage.

Graduate Diploma of Science in Biotechnology (Z011)

Master of Science in Biotechnology (Z012)

Career Opportunities: The courses aim to provide advanced education in biotechnology and to prepare students to undertaking diverse types of careers in this field. E.g. Medicine and health, agriculture, pharmaceutical and environmental, biotechnology businesses as well as the education sector.

A full listing of all postgraduate courses offered by Swinburne is available at:

<http://www.swinburne.edu.au/postgrad/courses/>

What help does Swinburne Careers and Employment offer?

Career Services

- Daily Resume and Cover Letter Checks
- Daily Interview Practice
- Career Seminars / Workshops for Students
- Careers in the Curriculum (CIC) – Higher Education Students
- Student Recruitment Service (Final Year Students)
- Career Counselling

Career Resources

- Career Resource Library
- Job Search Handouts
- Interactive Career Planning

SwinEmploy Employment Service

- All job advertisements for graduate placements, casual, vacation, part-time and full-time employment
- Links to employer websites
- Enables students to book online for events such as workshops, employer information sessions and interviews
- Access to Going Global (over 10,000 job vacancies listed across Europe, Asia-Pacific, UK and US. Global key employer directories, work permits & visa regulations, country-specific cultural & interviewing advice & more)

Download Careers and Employment job search handouts from SwinEmploy, including

- Addressing Selection Criteria
- Assessment Centres
- Cover Letters or Letters of Application
- Curriculum Vitae or Resume
- Employer Expectations of Graduates
- Interviews - How to Plan, Prepare and Perform
- Informational Interviewing
- Job Hunting
- Networking: What Is It and How Do You Do It?
- Online Applications
- Psychometric Tests
- Skills and Attributes
- Thinking About Changing Your Course?
- Tips for facing the work environment and your first professional job

The material in this document has been produced from the Graduate Destinations Survey, Swinburne University and Graduate Careers Council of Australia material, Graduate Opportunities, Australian Job Search, The Job Guide, Professional Associations and Careers and Employment's own research.

Careers & Employment
Swinburne University
Level 2, George Swinburne Building
Wakefield Street, Hawthorn VIC
Tel: 9214 5360
Email: careers@swin.edu.au
www.swinburne.edu.au/careers

ADVERTISEMENT EXAMPLES

Sourced from www.seek.com.au (December 2010)

Expressions of Interest: Demonstrators in Biochemistry, Chemistry and Genetics.

The Departments of Biochemistry, Chemistry and Genetics within the School of Molecular Sciences at La Trobe's Bundoora campus seek expressions of interest from appropriately qualified people able to provide assistance within the School's undergraduate practical laboratories during 2011.

Specifically, casual demonstrators are needed within the school's first, second and third year practical laboratories throughout each semester. All positions require a BSc or equivalent, majoring in chemistry, biochemistry or genetics or related biomedical science as appropriate. Payment will be at the University's standard demonstrating rates.

For further information, interested people should contact:

Fiona Carroll in Biochemistry (& biomedical science), (f.carroll@latrobe.edu.au),

Carmel Abrahams in Chemistry (c.abrahams@latrobe.edu.au)

Jodie Young in Genetics (jodie.young@latrobe.edu.au).

Applications.

Send CV including names of 2 referees as soon as possible to:

Grace Stanley,

School of Molecular Sciences,

La Trobe University, Vic 3086

Email: g.stanley@latrobe.edu.au

Tel: 03 9479 2265 Fax: 03 9479 1266

Applications open until Close of Business, Friday, 17th December 2010.

La Trobe University is an Equal Opportunity Employer

Only people with the right to work in Australia may apply for these positions.

Clinical Placement Assistant

\$45,230 - \$47,995 per annum plus 17% employer superannuation contribution.

This is a full time continuing appointment.

The School of Biomedical and Health Sciences are looking for a Clinical Placement Assistant to be the first point of contact for all students and staff enquiries into the clinic.

You will oversee the successful operation of clinical programs and be responsible for the coordination of osteopathy and dermal therapy student clinical rosters, placements and related records.

Previous experience in a Tertiary education environment is preferred but not essential, knowledge of institute administration procedures and skills in the use of clinical scheduling software will be highly regarded. Successful applicant will need to be tertiary qualified in the Science field.

How to Apply:

For further information and a position description visit our website www.vu.edu.au/jobs or phone 03 9919 4957. Applications must address the selection criteria contained in the position description.

Reference number: G00884

Applications Close: 4pm Friday 3 December 2010.

Victoria University reserves the right to appoint by invitation.

Privacy Policy available on request.

Victoria University is an Equal Opportunity Employer

Research Assistant - Metabolomics

- 12-month Contract (possibility of extension)
- Full Time
- Generous Salary Packaging Options

Baker IDI Heart & Diabetes Institute is an independent, internationally renowned medical research facility. Our work extends from the laboratory to wide-scale community studies with a focus on diagnosis, prevention and treatment of diabetes and cardiovascular disease.

Metabolomics is the systematic study of the unique metabolite (small-molecule) fingerprints of biological systems. The Metabolomics Laboratory uses “state of the art” tandem mass spectrometry to obtain metabolic profiles (primarily lipids and fats) from the blood stream and in model systems to develop new approaches to early diagnosis, risk assessment and therapeutic monitoring of diabetes and cardiovascular disease.

This position will assist in the novel metabolomic studies into the pathogenesis and risk assessment of type 2 diabetes and cardiovascular disease.

In this role you will be expected to perform the following key objectives:

- Perform library research on specified topics
- Write research progress reports
- Execute designated experiments
- Translate and interpret data and assist in the planning of data presentations
- Assist in the design and implementation of statistical techniques and computer data systems
- Assist in judging the validity of data obtained from experimental procedures and recommend additional tests and/or modifications
- Contribute to the production of conference and seminar papers and publications from research

The successful candidate will be a Science Graduate in a health science discipline, such as microbiology, biochemistry, chemistry, pathology, biomedical science or medical technology with some experience in research, including advanced study or experience generally associated with up to a Masters degree level.

Experience in one or more of the following areas would also be highly regarded:

- HPLC and/or mass spectrometry
- Lipid metabolism
- Obesity, diabetes and/or cardiovascular disease

A team player with high level interpersonal skills, you should also be able to work unsupervised, meet deadlines and be detail oriented. The position offers flexibility and generous salary packaging options. Remuneration will be commensurate with the successful candidate’s qualifications and experience. Applications should include a current resume with details of 3 professional referees quoting reference PM05 For a position description, further information or to apply, please visit our website at www.bakeridi.edu.au.

To be eligible to apply for this position you must have an appropriate Australian or New Zealand work visa.

Terry Schroeder, Recruitment Officer

Baker IDI Heart and Diabetes Institute 03 8532 1111 or 03 8532 1575