A CHOSEN CAREER IN MOLECULAR BIOTECHNOLOGY
CAREERS CENTRE
INTRODUCTION

The Curtin Careers Centre, working closely with employers and the university community, sources, develops and delivers career development programs and resources. The purpose of these professional and personal development learning opportunities is to facilitate successful career transitions; especially study to employment and further study and to enhance students’ ability to develop lifelong skills in managing their careers. The Careers Centre also provides accurate, current authoritative labour market and graduate recruitment information focusing on society’s needs and aspirations.

The Careers Centre team has written a series of occupation career booklets to enable tertiary students to consider their chosen field in more depth including information on the current labour market, associated professional associations, pertinent job seeking avenues and samples of relevant and related positions.

Whilst students are actively seeking information about a particular field they need also be aware of recruitment and selection methods and the need to develop strategies to be competitive in their field at graduate entry level.

Self-assessment is an essential component of job seeking i.e. a student needs to be fully aware of their interests, skills, attributes and capabilities to be able to convey this on paper (job application documents) and in person (networking/interviewing/promotion).

The purpose of this occupational booklet is twofold. It will assist students to develop knowledge of trends in employment and current opportunities and to identify existing skills and attributes required to successfully pursue a career in this field.

A student may not be aware that whilst using this resource that they are involved in Career Development Learning (CDL). CDL assists students to develop Self Awareness, to Identify Opportunities, to learn how to Make Decisions, to Manage Transition from university and incorporate Lifelong Learning.

This involves Curtin students working with the Curtin Careers Centre towards the attainment of required skills and knowledge at a tertiary level to successfully manage the changing contexts of life; incorporating:

- Personal Management
- Learning and Work Exploration
- Career Building

The Careers Centre hopes you find this a useful resource.
A CHOSEN CAREER IN MOLECULAR BIOTECHNOLOGY

Molecular biotechnology is used in a variety of exciting projects:

- Genetic engineering is being used to design new vaccines, antimicrobial agents and pharmaceutical drugs for the prevention and control of many diseases such as AIDS, malaria, tuberculosis and cancer.

- Stem cells and tissue culture research is providing innovative methods for organ replacement and injury repair.

- DNA profiling or “fingerprinting” allows accurate detection of genetic variation within a population and is now a major tool for forensic science and genetic breeding programs.

- Microbes are being harnessed for energy efficient extraction of valuable minerals and the production of renewable bio-fuels.

- Plants and animals are being genetically modified to improve the world’s food supply.

Molecular biotechnologists work towards providing solutions to some of the most challenging and pressing problems facing humanity, including the prevention and control of human, animal and plant diseases, the reversal of environmental degradation and feeding the world’s population (Curtin University, 2010).

A career in the molecular biotechnology and genetics field may include associated occupations with varying tasks. Go to My Future (2010) for further information.

- “Study the genetic, chemical, physical and structural composition of cells, tissues and organisms

- Identify ways in which organisms and biological processes can be used to create new medicines, vaccines, foods, fuels and pharmaceutical products

- Develop diagnostic tools to rapidly detect diseases

- Use bacteria, enzymes and other organisms for a range of industrial uses, including agricultural production, food production and waste removal

- Cross-breed animals and plants to encourage beneficial and desirable characteristics such as disease resistance, improved nutrition and accelerated environmental adaptation

- Conduct research and experiments in the field of genetic modification and bio-molecular engineering, which involves altering the genetic make-up of plants and animals

- Conduct human stem cell research with the aim of treating or preventing illnesses

- Use biological engineering processes to create commercially useful biological products, such as biomaterials, chemicals or fuels.”
WHAT ELSE HAS MY DEGREE TAUGHT ME?

Not sure of what you are capable of tackling in the workplace with your degree?

Curtin University policy on graduate attributes outlines the graduate attributes that a student is expected to develop while studying at Curtin in conjunction with specialist discipline knowledge. Not sure what that means? Graduate Attributes are the 'qualities, skills and understandings a university community agrees its students should develop during their time with the institution. These attributes include, but go beyond, the disciplinary expertise or technical knowledge that has traditionally formed the core of most university courses. They are qualities that also prepare graduates as agents for social good in an unknown future” (Bowden et al 2000).

Curtin graduates show evidence that they can:

• Apply discipline knowledge, principles and concepts
• Think critically, creatively and reflectively
• Access, evaluate and synthesise information
• Communicate effectively
• Use technologies appropriately
• Utilise lifelong learning skills
• Recognise and apply international perspectives
• Demonstrate intercultural awareness and understanding
• Apply professional skills

Combine these attributes with existing skills gained from life and work experiences and you will start to form a solid picture of what you are capable of.

If you are having difficulty with outlining your skills or recording your achievements login to Resume Express from the Careers Centre Website: www.careers.curtin.edu.au under the heading Current students, My Employment, Applying for work, Application process. See Module 2: Analyse Your Skills, attend a workshop at the Careers Centre or contact careers@curtin.edu.au to make an appointment to see a Careers Consultant.

Medical College of Georgia. (nd).
WHERE CAN MOLECULAR BIOTECHNOLOGY TAKE YOU?

WHO IS EMPLOYING IN YOUR FIELD?

Graduates find employment in a variety of settings including hospitals, government laboratories, clinics, university faculties and schools, research institutes, food processing, oil and pharmaceutical companies (My Future, 2010).

Students need to know their field: who is employing, what types of opportunities and positions are available and where, is the industry in an area of growth?

Employers want to know what you have also achieved aside from your degree, how have you added value to your degree? Have you been involved with student or community groups, are you a member of your professional association, are you working to support your studies in a related or non-related area (transferable skills), what experience have you gained from practical placements, have you documented this experience?

Due to the high degree of specialisation required in this field, completion of a postgraduate degree is generally required for advancement to senior scientific positions.

Employment is affected by factors such as the amount of funding provided for research in both the public and private sectors, and the general level of economic activity. Competition for jobs is strong.

LABOUR MARKET INFORMATION

The Department of Education, Employment and Workplace Relations (DEEWR) summarizes the following employment outlook statistics for the Health Care and Social Assistance sector.

• Health Care and Social Assistance sector is expected to provide the largest number of new jobs in the next five years

• One of the industries creating the most new jobs in the last 10 years

• 44.9% of workers in the Health Care and Social Assistance sector are aged between 45 and 64. As they retire and this will lead to more opportunities for graduates in future years

• Strong job growth is expected to continue due to an ageing population and developments in medical technology – approximately 211,500 new jobs in the five years to 2014-15 (DEEWR, 2010).

Also look at the Employment prospects of other industry areas that employ Molecular Biotechnologists and Genetic Scientists at Skills Info: http://www.skillsinfo.gov.au/skills/IndustryOutlooks/

Job Outlook (2010) defines a Life Scientist as a profession that “examine the anatomy, physiology and biochemistry of humans, animals, plants and other living organisms to better understand how living organisms function and interact with each other and the environment in which they live.”

Job Outlook (2010) outlines the following labour market statistics specific to Life Scientists.

• Strong growth in employment prospects for Life Scientists, are predicted for the five years to 2015.

• Life Science is a small occupation (8200 in November 2009) where employment rates have risen strongly in the past five years, but with small occupations employment estimates can fluctuate.

• 88.3 per cent of Life Scientists work full-time with the average weekly hours being 40.6.

• Life Scientists are employed across several industries including: Professional, Scientific and Technical Services; Education and Training; Public Administration and Safety; and Agriculture, Forestry and Fishing. The mix of industries employing Life Scientists is favourable for employment growth prospects.
Opportunities within molecular biotechnology and genetics that utilize biotechnology to solve problems, conduct research, develop and implement new products and treatments can be related to human uses, the environment or food and agriculture (CSIRO, 2010).

The [http://www.biotechnologyonline.gov.au/career/careers.html](http://www.biotechnologyonline.gov.au/career/careers.html) website also has excellent profiles of Australian professionals working in a variety of roles within molecular biotechnology, including their salary levels, their qualifications and a brief overview of their career journey to date.

The following definitions have been sourced from 123 Biotech (2008) [http://www.123biotech.com/](http://www.123biotech.com/)

**AGRICULTURAL BIOTECHNOLOGY**

The world’s growing population has raised concern about the quality of food and bio-agriculture has gained focus in the recent past. Farmers are looking at GM seeds, bio-fertilizers, bio-pesticides from which they can expect more return on their investments and also increase productivity.

Research initiatives are also being undertaken in the field to explore new technologies and the viability of establishing co-operatives and joint ventures.

This requires negotiation and approvals with many stakeholders that may include government, local communities, not for profit organisations and industry for the development of environment, social and economic sustainable farming practices (123 Biotech, 2008).

**BIOINFORMATICS**

Bioinformatics and computational biology involve the use of techniques and methods including applied mathematics, informatics, statistics, computer science, artificial intelligence, chemistry and biochemistry to solve biological problems.

Major research efforts being carried out in the arena include sequence alignment, gene finding, genetic engineering, DNA finger printing, genome assembly, protein structure alignment, protein structure prediction, prediction of gene expression and protein-protein interactions, and the modelling of evolution.

As a relatively new field, it is a multi-billion dollar industry. Millions of research hours are being spent in the field in developed countries, using data to explore better and more effective results (123 Biotech, 2008).

**FOOD BIOTECHNOLOGY**

Food Biotechnology has significant impacts for food production and population health and development. With a growing world population, regional imbalances and food shortage issues, new technologies and techniques are being developed to enhance production and increase the shelf life of perishable items.

This is particularly of interest as changing environmental and weather patterns have a significant impact on food production outcomes. Green biotechnology is also a new direction of research where the focus is towards how enhanced productivity and an increased nutrition value of food items can be achieved (123 Biotech, 2008).
MEDICAL/ HEALTH BIOTECHNOLOGY

Health biotechnology is an increasing discipline of biotechnology and no longer restricted to high-level research institutions in North America and Europe. With a need to address human suffering and diseases, developing countries are recognizing this and forging alliances to be in the forefront of research in this developing sector.

The potential to save millions of lives annually in developing countries from easily treated diseases can be achieved through the production of vaccines for prevention of many diseases and epidemic, diagnostic tools and other products of biotechnology. These can be which can be produced relatively easily and cheaply (123Biotech, 2008).

ENVIRONMENTAL BIOTECHNOLOGY

Environmental biotechnology is the use of living organisms for a wide variety of applications in hazardous waste treatment and pollution control. For example, a fungus is being used to clean up a noxious substance discharged by the paper-making industry.

Marine biotechnologists are studying ways that estuarine bacteria can detoxify materials such as chemical sea brines that cause environmental problems in many industries (123 Biotech, 2008).
GAUGING SALARIES

What are you worth? Depending on your position within government you could be paid under the PGSA (Public Sector Award) (Department of Planning and Infrastructure, 2006) or other government departments and for positions. Students should look at Levels 2 upwards, but be realistic.

<table>
<thead>
<tr>
<th>PSGA Position Levels and Salary Scales</th>
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<tbody>
<tr>
<td>Level 1</td>
<td>$16,694 - $40,609 (Entry Level)</td>
</tr>
<tr>
<td>Level 2</td>
<td>$42,017 - $46,686 (Supporting Role)</td>
</tr>
<tr>
<td>Level 3</td>
<td>$48,409 - $52,560 (Advise, Assist Lead Delegate)</td>
</tr>
<tr>
<td>Level 4</td>
<td>$54,510 - $57,609 (Supervisor, Administrator)</td>
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</tbody>
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Australian Public Service Award (APS)

Graduate Level 3 | $47,712 - $51,855

Below APESMA (2009) outlines the Median base salary attached to each position level and the responsibilities and experience expected in that position for the private sector.

LEVEL 1: $45,000

The graduate scientist commencement level. The scientist undertakes initial professional scientific tasks of limited scope and complexity, such as minor phases of broader assignments, in office, plant, field or laboratory work.

LEVEL 2: $59,930

Following development through Level 1 he/she is an experienced scientist (as defined) who plans and conducts professional scientific work without detailed supervision, but with guidance on unusual features and who is usually engaged on more responsible scientific assignments requiring substantial professional experience.

LEVEL 3: $70,000

A professional scientist performing duties requiring the application of mature professional scientific knowledge. With scope for individual accomplishment and coordination of more difficult assignments, the professional deals with problems for which it is necessary to modify established guides and devise new approaches.

LEVEL 4: $94,500

A professional scientist required to perform professional scientific work involving considerable independence in approach, demanding a considerable degree of originality, ingenuity and judgment, and knowledge of more than one field of, or expertise (for example, acts as his/her organisation’s technical reference authority) in a particular field of professional science.

LEVEL 5: $120,000

A professional scientist usually responsible for a scientific administrative function, directing several professional and other groups engaged in interrelated scientific responsibilities, or as a scientific consultant.
THE JOB SEARCH AND GETTING STARTED

JOB SEARCHING

Set up a Desktop Folder and add a Favorite Internet Explorer folder.

Download jobs of interest for future reference. NOTE: Don’t just save the link as the details will disappear once the position has been filled. Copy the advertisement or any additional files onto Word and keep in your desktop folder; this allows you to keep a track of who is hiring in your field and the types of positions available.

Look at positions available around the country and not just in Perth. This will give an idea of who is recruiting and where and differing salary scales


Pay scale: http://www.payscale.com (Free Salary Report)

REGISTER WITH WEBSITES FOR SPECIFIC JOB ALERTS

Register with websites for specific job alerts this will ensure that email alerts of appropriate jobs are sent directly to you.

JOB BOARDS


Byron Employment website gives a comprehensive list of recruitment agencies in WA and Australia:


Pharma and Life Science Jobs:
http://www.pharmatalentpool.com/content_static/home.asp

Chemskill:

Tranzition Professional and Executive Recruitment:

The Appointments Group:

Science People:
http://www.sciencepeople.com.au

Australian Biotechnology:
http://www.ausbiotech.org/directory/default.asp
ORGANISATIONS

CSIRO:
http://www.csiro.au/people/Careers.html

WA government:
www.jobs.wa.gov.au

Federal Government positions:
www.apsjobs.gov.au

Laverty Symbion Pathology

Phylogica:
http://www.phylogica.com/webbox/additional/careerOpportunities.php

Pfizer Australia:

Caltex:

Garvan Institute:

Lymphogenics:
http://www.lymphogenics.com/

Genetic Technologies Limited:

Molecular Plant Breeding CRC:
http://www.molecularplantbreeding.com/

Invitrogen:

Athlomics:
http://www.athlomics.com/

Benetec:
http://www.benitec.com/

Western Diagnostic Pathology:

UCL, (nd.)
THE JOB SEARCH AND GETTING STARTED

GRADUATE PROGRAMS

The application process for graduate opportunities is more involved and can take the format of online application forms – online aptitude testing (both short and long answers perhaps covering problem solving and innovation skills, communication and analytical ability, practical numerical skills, personality testing) – assessment centres (meeting staff and other applicants, working in teams on a case study and presenting findings) – to final panel interview.

General opportunities open to students from all disciplines are found mainly in the public sector, the private sector will usually advertise for specific disciplines. Go to Graduate opportunities to find out more about the programs available:

http://www.graduateopportunities.com/

Australian Bureau of Agricultural and Resource Economics (ABARE)
Applications close late April

Department of Agriculture, Fisheries and Forestry
http://www.daff.gov.au/about/jobs/graduate
Applications close late April

Department of Health and Aging
Applications close Mid June

Department of Innovation, Industry Science and Research
http://www.innovation.gov.au/General/GraduateProgram/Pages/GraduateCareerswithDITR.aspx
Applications close late April

National Foods
Applications close late March

National Healthcare Group Singapore
http://www.healthprofessionals.nhg.com.sg/

JOIN YOUR PROFESSIONAL ASSOCIATION

This allows you to keep abreast of trends and developments in your field and to check for any employment and networking opportunities. You may find that you are eligible for free; or at reduced fees, for journals, you may also have access to prizes, scholarships, awards and reduced conference/seminar attendance fees. Membership also looks good on your resume or curriculum vitae. Not all Associations are listed here, check out the Links section of the ones listed below for links to other appropriate associations and affiliations.

Australian Society of Biochemistry and Molecular Biology:

Western Australian Biomedical Research Institute:

Western Australia State Agricultural Biotechnology Centre:
http://www.sabc.murdoch.edu.au/

National Association of Testing Authorities:
http://www.nata.asn.au/
THE JOB SEARCH AND GETTING STARTED

VOLUNTEERING

Whilst some organizations offer vacation employment programs this is not usually applicable to your specialisation(s). Students will have to be proactive in seeking work experience or related work in their field of study, and, of course, practicum experience is available as part of nutrition, dietetics and health promotion. It is important to capitalize on this experience and the networks this provides. Seek to add value from practical placements by making yourself available for additional work or work experience either in vacation times or during the academic year. Get involved in your field early to be more competitive on completion of studies and to develop further experience in areas of interest.

Department of Agriculture, Fisheries and Forestry: http://www.daff.gov.au/about/jobs


Curtin Volunteers (Citizenship Group Award Winner at the 2008 WA Youth Awards for the outstanding help and support it has provided to the community) http://cv.curtin.edu.au/


ADDITIONAL RESOURCES


Australian Society for Medical Research: http://www.asmr.org.au/


Australian and New Zealand Society for Cell and Development Biology: http://www.anzscdb.org/

BioMelbourne Network: http://www.biомelbourne.org/24.0.html


Centre for Food and Genomic Medicine: http://www.cfgm.org.au/


EXAMPLES OF POSITIONS

MOLECULAR SCIENTIST - MOLECULAR GENETICS

A full time position in the Molecular Genetics Department is available at Western Diagnostic Pathology, Myaree Lab, in Perth WA.

Duties include nucleic acid extractions, PCR, Real-time PCR and DNA fragment analysis. Primary responsibilities will be performing assays for diagnosis of molecular genetic and molecular infectious diseases.

- Bachelor of Science or qualification relevant to Molecular Genetics is required. Honours qualification desirable.
- A minimum of 2 years practical experience in molecular techniques is essential. New graduates will not be accepted.
- Experience in a diagnostic lab analysing and reporting patient results required.
- Experience with real-time PCR and genetic analysers desirable.
- Ability to work in a team environment.

Enquires: email: karen.woodward@wdp.com.au

Please forward brief covering letter & CV quoting Ref no: 23/10 to: HR Manager, Western Diagnostic Pathology, 74 McCoy Street, Myaree WA 6154 by 16th July.
The Risk Branch is seeking enthusiastic, motivated and professional people to fill policy / project officer roles in several new sections within the branch. As a policy / project officer in the Risk Branch you will be expected to be an effective member of a team undertaking a range of activities including the development, implementation and review of policies, strategies and programs that set the broad strategic framework for Australia's biosecurity management activities.

The main duties of the positions include, but are not limited to, being key contributors to high performing teams that focus and deliver outcomes in one or more of the following areas:

- developing the core methodology to enable the implementation of a risk-return approach to biosecurity management
- obtaining government approval for the ongoing biosecurity reform process including establishing strong relationships with key government agency stakeholders
- developing a Strategic Policy Framework for the BSG and effectively communicate the framework to all stakeholders.

This is an exciting opportunity to be part of a new area working on key areas of Australia's biosecurity management reform agenda.

The Job

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- obtaining government approval for the ongoing biosecurity reform process including establishing strong relationships with key government agency stakeholders
- developing a Strategic Policy Framework for the BSG and effectively communicate the framework to all stakeholders.

In this role you will make an effective contribution to the outcomes of a team, provide advice, monitor policy / project outcomes and liaise with other departments, external agencies and other stakeholders. You may also be required to manage or assist in a range of specific projects and activities linked to the reform of the delivery of Australian biosecurity outcomes.
TITLE: POLICY / PROJECT OFFICER (CONT)

The successful applicant will possess good communication (both written and oral) and interpersonal skills and the ability to work as part of a small team to achieve results. They will also demonstrate initiative and possess good research and analytical abilities and the ability to develop innovative solutions in the biosecurity management environment.

As an employee of the department, you will be expected to uphold the APS Values and comply with the APS Code of Conduct.

Selection Criteria

Criterion 1: Shapes strategic thinking
• Inspire a sense of purpose and direction
• Focus strategically
• Harness information and opportunities
• Show judgment, intelligence and commonsense

Criterion 2: Achieves Results
• Build organisational capability and responsiveness
• Marshal professional expertise
• Steer and implement change and deal with uncertainty
• Ensure closure and deliver on intended results
• Manage projects and / or policy development and the ability to achieve objectives with limited supervision within tight deadlines

Criterion 3: Cultivates productive working relationships
• Manage / supervise staff or working groups
• Nurture internal and external relationships
• Facilitate cooperation and partnerships
• Value individual differences and diversity
• Guide, mentor and develop people
• Work either independently or in a team environment

Criterion 4: Displays personal drive and integrity
• Engage with risk and show personal courage
• Commit to action
• Display resilience and initiative
• Demonstrate self awareness and commitment to personal development.

Criterion 5: Communicates with influence
• Communicate clearly with senior management, regional staff, industry representatives and external agencies
• Listen, understand and adapt to the audience
• Negotiate persuasively
• Ability to articulate, document and review requirements for complex information systems or business processes
STUDY CO-ORDINATOR

Challenging and Rewarding Role
Health Care and Medical Research
Part Time Position up to 0.5FTE
Attractive Remuneration and Generous Salary Packaging

The Lions Eye Institute (LEI) is the leading eye research institute with international reputation and leads Australia in investigating the prevention and cure of blinding eye diseases. It is part of the University of Western Australia Faculty of Medicine Dentistry and Health Sciences.

The Study Co-ordinator will provide support for a Phase I/II Gene Therapy Trial at the Institute.

Qualifications and Experience

Relevant tertiary qualification in nursing and/or medical science
Basic understanding of molecular biological and genetics concept is an advantage
Excellent interpersonal and communication skills, data handling and report writing
Experience in co-ordinating clinical trial highly desirable
Ability to work independently as well as within a team
Good computing and communication skills essential
Previous experience in clinical trials and knowledge of GCP Principles would be beneficial.

The position is for one year initially with a good prospect of continuation.

Application closing date: 10 July 2010
Further details and written applications and CV to be directed to:
Head of Department - Molecular Ophthalmology
Lions Eye Institute
2 Verdun Street
Nedlands WA 6009 or
rakoczy@cyllene.uwa.edu.au
RESEARCH OFFICER

(REF: 3177)
University of WA: SCHOOL OF SURGERY

12 month appointment

Located at the QEI Medical Centre

Salary range: Level 6  $61,207 - $64,784 p.a.

Closing date: Tuesday, 13 July 2010

The School of Surgery is seeking to appoint a highly motivated and organised person to support the Western Australian arm of an exciting new national research project funded by the National Breast Cancer Foundation (NBCF)

The Research Officer will work as part of a research team and will develop and establish protocols for the clinical validation component of the project in Western Australia. The appointee will, with assistance, coordinate the retrieval of specimens, both archived and from patients, develop a database for the project and perform histological and molecular biology assays as required. We require a person who can maintain patient confidentiality and has a positive attitude.

Committed to recruiting, developing and retaining the highest quality staff
EXAMPLES OF POSITIONS

SCIENTIFIC OFFICER - NORTH RYDE

Full Time

A great opportunity is available at one of Australia’s Leading Quality Pathology laboratories for a full time Scientific Officer.

This position is in our Molecular Diagnostics department, therefore high attention to detail and a commitment to quality is essential.

- Suitable tertiary qualifications in Science/Molecular Biology/Biotechnology
- Experience in Molecular Biology within a routine pathology lab is essential.
- Excellent Communication skills
- Availability to participate in a 24/7 day a week roster

Successful applicants will be highly motivated and enthusiastic and capable of working with minimal supervision whilst also performing as part of a supportive and dynamic team. Symbion Laverty Pathology prides itself on providing great career and learning opportunities.

If you are interested in taking on the challenges of this position, please press the ‘Apply Now’ button. Please include a current resume and covering letter stating position applied for or for further enquiries phone the Chief Scientist - Molecular Diagnostics on (02) 9005 xxxx.
BIOLOGICAL SCIENTIST- RESEARCH AND DEVELOPMENT ROLE

Excellent Opportunity in Research and Development ; Friendly and Supportive Work Environment
Eight - Ten Month Contract with Great Remuneration

Our client is a government organisation with expertise in the properties, synthesis and analysis of chemicals. As this is a Australian Government role, ONLY Australian Citizens are eligible to apply. Based in Melbourne, they are currently looking for a Biological Scientist to fill an 8-10 month contract. The main duties will include:

• Developing and validating molecular techniques for genotyping of plant materials.
• Undertaking in vitro cell cytotoxicity assays to determine and compare the toxicity of purified toxin and crude toxin extracts.
• Conduct evaluation required for the development of Surface Plasmon Resonance biosensors.
• Validating and evaluating real-time PCR-based detection systems, such as RAZOR, with clean samples and samples containing PCR inhibitors.
• Developing SOPs for sample preparations and Hand-Held assays as well as the decontamination.
• Cultivation and preparation of bacterial cells and spores required for the development of molecular and/or immunological assays.
• General laboratory equipment maintenance and duties.

An attractive hourly rate of $26 - $32 per hour plus super will be awarded to the successful candidates.

To be considered for these positions you will need to meet the following requirements:

Science degree in microbiology, biotechnology, immunology, molecular biology or similar. MUST be an Australian Citizen. Experience in recombinant proteins (cloning, expression, purification), immunological assays (ELISA, western blot and Hand Held assays), in vitro cell cytotoxicity assays using different cell lines and molecular DNA techniques (extraction, real-time PCR, cloning, sequencing)

• Demonstrated knowledge and understanding of the principles of molecular and immunological assays, coupled with general technical skills in one or more of microbiology, immunology, biochemistry, molecular biology.
• Practical experience with PCR and/or immunological assays for the detection of microorganisms and/or toxins, including practical experience in operating in PC2 level laboratories.
• Good organisational skills in conducting scientific literature review and experiments, including a high level of professionalism in the conduct and recording of experiments to assure data integrity.
• Self motivated with the ability to work under pressure; to balance time between a variety of tasks; and to adapt to changes to research projects.
• Sound communication and interpersonal skills, including the ability to communicate effectively orally and in writing with the scientific community.

To submit your application, please forward your resume together with a covering letter addressing all the above mentioned criteria to resumesvic@chemskill.com.au

To discuss this position, please call Helen on 03 9xxx xxxx.
LIFE SCIENCES SALES REPRESENTATIVE QLD JOB # 906-09

$50-60,000 + super + performance based bonuses 10-20% of base salary + Car allowance $13,000 + fuel

Great career with leading multinational company
Sell life sciences products, PCR, Molecular Biology, DNA, RNA,

Our client is a world leading multinational company supplying the Australian Life Sciences market with quality products.

You will be working independently, reporting to a national sales manager.
Your clients will include Universities, Hospitals, Research Institutes and Biotechnology.
More details will be made available during the recruitment process.

You must have:

• Minimum a B.Sc with honours in a relevant discipline
• Knowledge of PCR, Molecular Biology, DNA, RNA, Cell Culture and Cell Biology
• Laboratory experience in these fields will be very well regarded
• Knowledge of the Qld Life Sciences Laboratory market, preferably with prior experience in sales within this industry
• Excellent verbal and written communications skills in English
• Professional personal presentation
• Current drivers licence
• Keenness for a long term career in this area

Details are also on our website www.sciencepeople.com.au

If this sounds like you, please email your resume to apply@sciencepeople.com.au quoting job #906-09
Contact Diana Heer on 07 3xxx xxxx

You must be an Australian Citizen or permanent resident to be considered.


As all applications generate an automatic email response, Science People recommends that candidates use a private email address and not send us job applications or correspondence from your work.
The Victor Chang Cardiac Research Institute, established in 1994, is recognised as an international centre of excellence in biomedical research, with a focus on heart disease and cardiovascular biology. A Research Assistant position in molecular biology is available in the Mechanosensory Biophysics Laboratory at the Victor Chang Cardiac Research Institute.

Research in the Laboratory addresses structure and function in mechanosensitive (MS) ion channels in prokaryotes and eukaryotes. The channels currently studied include bacterial MscL and MscS channels and eukaryotic MS channels suspected to play a role in heart arrhythmias. We use state of the art methods and techniques including the patch-clamp technique, molecular biological and protein purification techniques, confocal microscopy and FRET spectroscopy to study molecular basis of mechanosensory transduction in living cells.

The appointee must have a BSc qualification in Biochemistry and/or Molecular Biology and will be required to take care of bacterial and eukaryotic cell cultures, undertake mutagenesis and purification of MS channels, as well as assist laboratory manager and postdoctoral fellows in their projects.

For further information please contact Dr Boris Martinac via e-mail: b.martinac@victorchang.edu.au or phone (02) 9295 8743.

Salary will be commensurate with qualifications and experience. Salary packaging and superannuation options also apply. This is a full-time appointment for one year with the possibility of extension to three years dependent on available funding. A desirable starting date would be 4 January 2010.

Applications, including CV, proof of qualifications and details of three referees by 15 December 2009, can be sent to:
EXAMPLES OF POSITIONS

RESEARCH ASSISTANT

Location: Brisbane

The Queensland Institute of Medical Research (QIMR) is one of the largest medical research institutes in the southern hemisphere, with programs in areas such as cellular and molecular sciences, epidemiology and population health, cancer biology, biotechnology, infectious diseases and vaccine development.

Applications are invited for a Research Assistant to join the QIMR Molecular Vaccinology Laboratory. This position offers the opportunity to investigate the molecular basis of immunity to disease, with a focus on malaria and model systems that can inform the basic immunology, mechanisms and antigenic targets of immunity, and efficacy of candidate vaccines. Research aims include the identification of targets of cellular immune responses on a genome-wide scale. Duties will include the design and execution of in vitro and in vivo experiments, and the analysis and presentation of scientific data.

Applicants must possess a Bachelor Degree in Science or Biotechnology (Honours desirable) coupled with laboratory experience in cellular immunology and molecular biology, including cell culture, FACS analysis, ELIspot, ELISA, cloning and SDS-PAGE. Experience with animal handling, vaccines and infectious diseases is desirable. Excellent communication, interpersonal, and organisational skills are essential. Candidates should possess the ability to work independently as well as in a team environment.

Salary range is $49,695 to $67,442 per annum (full-time equivalent) commensurate with qualifications and experience. Attractive salary packaging and superannuation options also apply. This is a full-time appointment for one year with the possibility of extension subject to funding availability. Part time is also available upon negotiation.

Further Information including a position description is available at www.qimr.edu.au/employ or contact Dr Denise Doolan on (07) 3362 0382 or Denise.Doolan@qimr.edu.au

Applications should include a curriculum vitae, proof of qualifications, and the names and contact details of three professional referees.

Quote reference # 66/09 and send applications to: vacancies@qimr.edu.au or: Human Resource Officer, Queensland Institute of Medical Research, PO Royal Brisbane Hospital, QLD, 4029.
RESEARCH ASSISTANT

Children’s Cancer Institute Australia, a modern, independent Medical Research Institute committed to saving the lives of all children with cancer and eliminating their suffering through world class research is seeking to appoint a motivated and energetic Industry Funded Research Assistant to join our Pharmacoproteomics Program and work in its state-of-the-art laborites in Randwick.

The successful candidate will be highly motivated and have a high level of competence in all aspects of the experimental work, and have the ability to work both independently and in a team situation as required. The individual will also be expected to make a significant contribution to the experimental outputs of the Pharmacoproteomics Program.

Essential criteria: molecular experience including cloning and gene expression, mammalian cell transfection, ability or willingness to work with mouse models of cancer, and general cell biology experience.

Applicants must have BSc (Hons) or equivalent qualifications in Science or related area. A high-level of motivation, reliability and research productivity are critical attributes.

Applications addressing the essential criteria listed in the job description can be sent to Human Resources (recruitment@ccia.org.au) by Friday 27 November 2009.

The successful applicant will be expected to commence employment on Monday 4 January 2010.

Please email your resume to: recruitment@ccia.org.au

Further particulars, including job descriptions may be obtained from our website www.ccia.org.au or recruitment@ccia.org.au

CHILDREN’S CANCER INSTITUTE AUSTRALIA FOR MEDICAL RESEARCH Affiliated with University of New South Wales
REFERENCES


Contacting the Careers Centre...

Feel free to visit us at Building 303
Email us at careers@curtin.edu.au
Give us a call on (08) 9266 7802
Or check out our website at www.careers.curtin.edu.au

Stay connected to the Careers Centre with Jobs and Events Connect. Access new jobs posted daily, workshop information, special events and employer presentations.

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