

13th Edition

# Maths ad(d)s

See where  
mathematics  
and statistics  
can take you



A guide for students to the job market  
**2010/11**



ICE-EM is the Education division of AMSI.  
This Centre was established in 2004 with the  
assistance of the Australian Government



# Discover the jobs market!

A broad range of careers employing mathematics and statistics qualifications await you!

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AMSI is a national collaborative venture with a membership of 34 leading institutions across Australia. It was established in 2002 and has its head office in Melbourne. AMSI has a high profile nationally and internationally.

AMSI conducts a wide range of national and international activities in the mathematical sciences, including scientific workshops, distinguished visiting lecturerships, short courses and industry liaison.

[www.amsi.org.au](http://www.amsi.org.au)

The International Centre of Excellence for Education in Mathematics (ICE-EM) is the Education division of AMSI. This Centre was established in 2004 with the assistance of the Australian Government

# Maths ad(d)s 2010/11

See where mathematics  
can take you

In this booklet we have gathered together job advertisements that have recently appeared on the internet and in the daily press. The common theme of the ads is mathematics and statistics, but the actual jobs vary across a very broad spectrum. They give an overview of the myriad of possible careers available to prospective university students after graduation – if they include mathematics or statistics in their degrees.

Whether it be finance or tourism, just about every area of employment depends at some point on handling and interpreting data, and on predicting and modelling outcomes – in other words, on the kind of expertise offered by people with training in mathematics and statistics. In addition, many employers seek mathematics and statistics graduates because they value their advanced problem-solving and analytical skills.

In this booklet you will find career opportunities combining mathematics and statistics with health, computing, data analysis, biology, epidemiology, forensics and meteorology, just to name a few. You could end up investigating the geometry of liquid crystals or consulting for a sports company.

While many of the jobs listed here are based in big cities, others offer an opportunity to work in regional centres or a chance to live overseas.

The ads in this thirteenth edition are completely new. Even so they represent only a fraction of the advertised positions found in the early months of 2010.

Whether you are a pragmatist, an idealist, or you just cannot decide what you want to do or be, you can be sure that **maths adds** to your options!

**Disclaimer:** The views expressed in this booklet are the views of the authors. They do not necessarily represent the views of AMSI, nor the views of the employers, consultants and newspapers involved in these advertisements.

# Biology

Medical imaging,  
plant biology,  
genetics,  
ecology...

There are many great  
opportunities to mix  
mathematics and  
statistics with the  
biological sciences,  
take these job ads  
for example...

**THE UNIVERSITY OF NEW ENGLAND**

**Research Fellow in Statistical Genetics and Genomics**

**School of Environmental and Rural Science**

The School of Environmental and Rural Science at UNE has an enviable reputation as a research based education group, teaching agricultural science and management in a rural environment. The School has a long history of excellence in education through its degree in Rural Science. The staff of the School are presently actively involved in education and research programs of four "agricultural" CRCs and are also well recognised by industry research funding bodies. This position is with the Animal Genetics group, which has a strong international reputation, is well funded and has a very active research portfolio.

High quality applications are sought for a Research Fellow in the area of Statistical Genetics and Genomics. The successful candidate is expected to further develop statistical methodology useful for whole genome analyses with particular emphasis on the analysis of human data.

The position is for a fixed-term period of two years, with possibility of further appointment subject to funding and satisfactory performance. Consideration may be given to filling the position on a less than full-time basis.

Applicants must have completed or be near to completion of a PhD degree in animal genetics, statistical genetics or a related area. Experience with statistical analysis of quantitative genetic models as well as experience in computer programming is required. Experience in analysis related to gene mapping is desirable.

For further details about this position, please contact Professor [REDACTED], School of Environmental and Rural Science (ph: 02 [REDACTED]), or Professor [REDACTED], School of Environmental and Rural Science (ph: 02 [REDACTED]).

**Salary:** \$71,575 to \$84,829 per annum (Research Fellow) plus 17% employer superannuation and optional salary packaging

**Closing Date:** 28 June 2010

**Reference No:**

**HOW TO APPLY:**

An application package (including the selection criteria) must be obtained from <http://www.une.edu.au/recruit> or by phoning (02) [REDACTED]. Applications should include:

- supporting information against each of the selection criteria. This ensures the Selection Committee have adequate detail to assess your application.
- a curriculum vitae
- the names and contact details of three referees

Applications will be received up to 5pm on the closing date.

<http://www.une.edu.au>

**UNE**  
The University of  
NEW ENGLAND

'Equity principles underpin all UNE policies and procedures'



**Career Opportunities**

[www.csiro.au](http://www.csiro.au)

**Resource-Ecological Economist**



**The Position:**  
We have an exciting opportunity for a resource/ ecological economist in the area of integrated socio-economic and biophysical modelling, policy design and analysis for natural resource management. A particular emphasis of the position will be on water scarcity and water resource management in the face of future climate uncertainty.

**Location:** Adelaide, SA, Australia  
**Salary:** \$70K - \$90K plus Super  
**Reference No:**

**To be successful in this position you'll need:**

- Well-developed skills in quantitative economics with an emphasis on environmental or natural resource economics and management. We are particularly interested in people with strong environmental economics background, participation in quantitative operations research, and modelling skills..
- A working knowledge or experience in statistics, spatial analysis and GIS, regional or development economics, and familiarity with biophysical science relevant to resource and environmental issues.
- The ability to think and work independently, write quickly and clearly, work to deadlines, be a strong communicator and thrive in a team environment.

**Who we are:**  
The Commonwealth Scientific and Industrial Research Organisation (CSIRO) is one of the largest and most diverse scientific organisations in the world. By igniting the creative spirit of our people, we deliver great science and innovative solutions that benefit industry, society and the environment.

**Our Business Unit:**  
CSIRO Sustainable Ecosystems are world leaders in economic, environmental and social sustainability research. CSIRO's Social and Economic Sciences research program aims to deliver social, behavioural, economic and institutional research that informs natural resource management policy and the design of sustainable solutions to environmental problems.

**CSIRO prefers all applications to be lodged via our online careers portal. Email/late applications may not be accepted.**

For selection documentation and details on how to apply visit [www.csiro.au/careers](http://www.csiro.au/careers)

**CSIRO**

# BUSINESS

Read between the lines...

The increasing availability, awareness and dependence on commercial data have made the business sector a growth area for mathematics and statistics employment possibilities. The jobs are rarely titled "mathematician" or "statistician", but the fine print makes it clear that's who they want...

Michael Page  
FINANCE

## Business Analyst

- CBD location
- Excellent salary and benefits

### About our Client

With their head office based in the heart of Perth city, our client has maintained a friendly, welcoming culture where work/life balance is encouraged and attractive benefits are offered to all employees.

### Job Description

Working in a team environment, the main responsibility of this role is to undertake research and provide analytical and reporting services to improve the financial viability of our clients business. Reporting to the Manager, the role will undertake data analysis and extraction and create financial models and analysis tools to determine and report on forecast outcomes.

### The Successful Applicant

With tertiary qualifications in Commerce, Mathematics or Statistics, you will possess advanced Excel and Financial Modeling skills as well as exceptional report writing and presentation skills. Proven ability to work successfully in a team with superior interpersonal skills will ensure your success within a progressive and supportive organisation.

### What's on Offer

- CBD location
- Work / life balance
- Progression opportunities
- Excellent salary and benefits

To apply online please click the 'Apply' button below. For a confidential discussion about this role please contact quoting reference number on +618

[www.michaelpage.com.au/accounting](http://www.michaelpage.com.au/accounting)

**CLICKS**  
**CLICKS**  
I.T. Recruitment

### Business Analyst

- Opportunity to make your mark
- Fast growing services group
- Melbourne CBD Location

A newly created opportunity has just become available for an experienced Business Analyst to join a dynamic and innovative professional services organization

Reporting into the financial controller, and working closely with this person, your responsibilities will include analyzing and interpreting complex financial and operational data. From this you will be charged with identifying opportunities for ongoing improvements within the organization and driving projects that lead to competitive advantage.

**Your responsibilities:**

- Analyzing, manipulating and interpreting complex financial and operational data
- Preparation on monthly management reports
- Trend and pricing analysis
- Identifying revenue and/or margin growth opportunities
- Monitoring and reporting on key contracts
- Providing assistance with tender pricing
- Business case evaluation
- Assistance in annual planning process
- Project initiatives

**Your skills and experience**

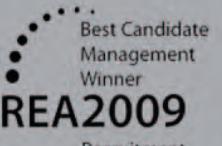
- 5+ years experience as a Business Analyst
- Degree in Economics, mathematics or statistics
- Crystal reporting experience
- Strong Microsoft products experience and skill
- Good business acumen
- Passion for driving improvements and adding value
- Ability to liaise and communicate effectively with senior stakeholders

If you are looking to join a team where you will be valued and rewarded for your contribution, where you can not only undertake the analysis but assist in identifying initiatives and drive improvement then we want to hear from you.

Please contact [REDACTED] on [REDACTED] for more information or APPLY now quoting reference number [REDACTED]

Please email your application using the "Apply Now" button below.

[www.clicksrecruit.com.au](http://www.clicksrecruit.com.au)

  
REA2009  
Best Candidate Management Winner  
Recruitment Excellence Awards

# Computing

Distinguish yourself from the rest...

Combining mathematics and computing is a great way to get a clear edge over a straight computing graduate. As you can see from other ads in this booklet, many jobs require both maths and computing skills.

## Product Developer (Software R&D Startup)

*The Red Lizard Software/NICTA*

Posted on: Tue Nov 10 2009

The Red Lizard Software/NICTA team is looking for an additional software developer. Your role will be to work with the R&D team towards implementing new product features.

Red Lizard develops state-of-the-art static analysis tools that find bugs in C/C++ code at compile-time. It does this without need for code annotations or test harnesses. It is written in OCaml and makes use of the latest research results.

You will be working in a small team of people who value results. As a team member your will be responsible for creating and implementing new solutions as well as product development based on customer interaction.

<http://www.redlizards.com>

<http://nicta.com.au/goanna>

### Duties of the Position

- product development and customer interaction
- assisting the team in implementing high quality software
- setting up and maintaining testing frameworks
- programming, documentation and testing of software
- participation in program meetings and seminars

### Qualifications Required

- An Honours degree in Computer Science, Mathematics, or equivalent

### Knowledge

The position requires knowledge of

- programming OCaml or any other functional language (Haskell etc.)
- reading and understanding C/C++
- willingness to learn about static code analysis and underlying methods

### Experience

- good to excellent ability to read, understand and modify functional programs on Unix and Windows platforms
- good ability to read, understand and C/C++programs
- experience in software development (incl. revision control, bug tracking and unit testing)
- experience in IDE plugin development (Eclipse, Xcode, Visual Studio) is a plus
- experience in program analysis and model checking is a plus

### Personal Abilities

- excellent oral and written communication skills are crucial
- motivated by quality and excellence
- team player who can deliver high quality work under time pressure

For more information and applications please contact:

Dr  
National ICT Australia Limited  
University of NSW, Locked Bag 6016,  
NSW 1466, Australia  
Phone: +61 2  
Fax: +61 2  
Email:

\*\*\*Mention you saw it on the AustMS website\*\*\*

# Computing



## Software Developers x3move to C++, Canberra ACT

\*\*\*Please note, candidates must be Australian Citizens\*\*\*

My client is a market leading Software Company with a superb range of products & services. Their client base is global, they are recognised as being the most innovative & creative company in their field and they continue to stay ahead of the competition. Continued growth has led to bigger and more complex projects providing specialist software products, partnering with some of the well-known global heavy-weights in this field.

This growth means that they are now looking to recruit Mid Level (eg 2 or 3 yrs commercial experience) Software Engineers to join their development teams. I am looking for extremely bright & talented Software Engineers who have strong academic backgrounds (eg First Class Degrees in either Software Development, Mathematics, Physics) and fluent development skills in other languages (eg VB.Net, C#, Java etc) who want to move across to C++ and undertake projects that are extremely complex and technically challenging and will provide you with a superb opportunity to take your expertise in the software development arena to the next level. Successful applicants will need

- 1-3 yrs commercial software development experience (Java, .Net etc)
- Ideally Experience with a user interface language/tool-kits
- skills across the entire SDLC
- fluent coding skills and the ability to pick up new concepts quickly and possess strong logical problem solving skills.

Your peer group will be C++ guru's and you will be working within a company for whom around 70-80% of their development teams have PhD's so the work will be complex with you working with a product set it can take a couple of years to develop a strong understanding of so the ability to understand complex product sets, work on a daily basis solving highly complicated problems and enjoy this is key. These roles would suit first class developers who perhaps feel they aren't being fully stretched in their current roles and are keen to give themselves a new challenge.

The projects you will be working on are highly complex & will provide daily stimulation & mental challenges, working as part of a top class team you will be responsible for developing Video Exploitation applications for the defence & Broadcast sector. This is a flagship project looking at their video analysis & video processing GUI & Web product range.

Candidates must have logical thought patterns and be interested in making code cleaner and simpler wherever possible.

Any experience in a Unix/Linux environment would also be also be useful but again training is available to the right candidates.

If you are an ambitious & talented Software Engineer looking to work with the very best on cutting edge, high profile C++ projects then look no further. Superb training/mentoring available, a growing company, great working environment & the chance to work alongside people who are really passionate about what they do - this really is not to be missed!!! If you think this is the role for you then please apply ASAP with an up to date resume (Word Format) or call [redacted] on 02 [redacted] for a confidential discussion.

Email: Please click the 'Apply Now' button below.

Skillquest Pty Ltd  
Level 6, 75-85 Elizabeth St  
Sydney NSW 2000

Tel +612  
Fax +612

## JAG RECRUITMENT

### C++ Developers – Algorithmic and Quantitative Development Projects

- Career Choice
- Extraordinary CBD Office
- Established Global Organisation

Our client is looking for mathematically minded C++ developers to join them in their mission to create the fastest, most effective algorithmic and quantitative trading applications. They are a global trading firm who have had a firm presence in Sydney for 20 years. They have established a highly talented and creative team of C++ developers who enjoy top salaries as well as an enviable work / life balance.

Candidates must demonstrate a strong history of academic achievement from high school through to university. That means top UAI scores and 1st Class Bachelor's degrees with honours, Deans List or other such distinctions. Bachelor's degrees will be local, from universities such as UTS, USYD, UNSW.

Applicants must have around 3 or more years commercial C++ development experience with local businesses and will have some understanding or appreciation of trading / investment banking applications including quantitative development using C++.

We are looking for C++ developers with:

- History of academic achievement (eg: top UAI, 1st Class, Honours, Dean's list)
- **Bachelors degree in maths / statistics or IT subject (distinction / high distinction)**
- Enjoys puzzles and problem solving
- Career minded go-getters
- 3+ years commercial C++ development, including quantitative development

Team Lead roles are also available.

Learn more about this recruiter, find Nadia Priestley on LinkedIn.

#### To Apply

Please call [redacted] on 02 [redacted] to discuss or apply below

T 02 [redacted] M 04 [redacted]  
Level 9, 88 Pitt Street Sydney NSW 2000 / [www.jagrecruitment.com.au](http://www.jagrecruitment.com.au)

# Computing

## Vantage

INNOVATIVE RECRUITMENT SOLUTIONS

### Software Architect / Senior Software Engineer

- Diverse technology and large scale enterprise applications
- Full life cycle role from business engagement to design to integration
- Strong project delivery focus
- \$150K+ Package + Benefits
- Sydney CBD location

This is an exciting and rare opportunity for a **Senior Software Engineer** to take the lead across the whole development life cycle. From:

- Business Engagement and requirement gathering, to
- System Design, to
- Software architecture to
- Development and Deployment

In most regards, it's the perfect Software Development Managers role. All the great things you love about making software happen...but without all the management reporting and politics that just really gets in the way of delivering a great product.

Interested ?

You'll be rewarded not only financially, but by working with a great team of highly skilled people in a business environment that knows great systems really are the lynch pin to their success.

What we're looking for in candidates?

- A strong software development background in complex environments
- An agnostic viewpoint of software eg you don't care if it's Java, C++, .Net, or whatever...
- Degree backgrounds in Computer Science, Mathematics, Engineering or similar

To apply for this exceptional opportunity, select the **APPLY** button below or contact **Vantage Recruitment** on (02) for a confidential discussion. Candidates are requested to submit resumes in Word or text format.

Email: Please click the 'Apply Now' button below.

**SYDNEY      MELBOURNE      PERTH**

Level 10  
6 O'Connell St  
Sydney, NSW 2000      P: 02  
F: 02



[www.vantagerecruitment.com.au](http://www.vantagerecruitment.com.au)

A new **outlook** for **your career**

### Computer Programmer

- Centre for Australian Weather and Climate Research
- \$66,504 – \$74,542 per annum, plus 15.4% superannuation
- Docklands, Melbourne

CAWCR is a joint organisation between the Bureau of Meteorology and CSIRO. CAWCR undertakes research in fulfilment of its responsibilities as a national research agency, contributing to the advancement of meteorological science in Australia, to the development and application of meteorology for the needs of the Australian community, and to the support of the Bureau's operational services. The CVC (Climate Variability and Change) program in CAWCR, in collaboration with the operational areas of the Bureau, carries out the main research activities in climate prediction, climate analysis, and climate change.

The Centre for Australian Weather and Climate Research (CAWCR) is seeking a computer programmer to assist in advancing the use of coupled climate models for climate variability and prediction research. The successful applicant will develop, implement, and document computing software applications associated with running climate models and archiving, accessing and analysing their output. These functions will require expertise across the broad range of computing systems and software employed within the Bureau, including Unix servers, PCs, supercomputers, and advanced visualization software and, programming and scripting languages. Persons working at this level will have sound computing experience with several programming and scripting languages, and operating systems and will possess advanced knowledge of mathematics and/or a physical science. This position is available for a period of 3 years with a possibility of extension.

For a comprehensive position description, application details and other requirements visit our website at [www.bom.gov.au/careers](http://www.bom.gov.au/careers) or by emailing quoting position ref

For further information about the position please contact Dr on 03

**APPLICATIONS CLOSE: Thursday, 18 February 2010.**

[www.bom.gov.au/careers](http://www.bom.gov.au/careers)



## Australian Government

### Australian Institute of Criminology

#### Research Analysts and Senior Research Analysts

(Fixed term contracts, remuneration package \$71,300 - \$110,000 based on qualifications and experience).

The Australian Institute of Criminology, located in Canberra ACT, is the Australian Government's independent national research and knowledge centre on crime and justice, undertaking research across a wide array of topics including human trafficking, illicit drugs, transnational crime, violent crime, cybercrime, fraud, crime modelling and forecasting, and financial crime.

The AIC is currently seeking applications for specialist quantitative research analysts to join its team. Successful candidates should hold Honours or post-graduate qualifications in a relevant discipline, such as statistics, econometrics, market research, engineering, sciences, demography, psychology and/or criminology with a substantial quantitative methods component. Criminology content knowledge is desirable but not a prerequisite.

Applicants should be able to demonstrate expertise in at least some of the following: design and analysis of surveys; longitudinal data analysis; multivariate analysis; regression modelling; content analysis; network modeling; and/or structural equation modelling.

#### Position Description: Research Analysts/Senior Research Analysts

Specialist quantitative analysis positions

The Australian Institute of Criminology (AIC) is a Commonwealth Statutory Authority located in Canberra and established under the Criminology Research Act 1971. The Institute is the Australian Government's national research and knowledge centre on crime and justice.

#### The Institute:

- Undertakes research across a wide array of topics including sexual assault, illicit drugs, transnational crime, missing persons, cybercrime, fraud, indigenous victims and offenders, and human trafficking.
- Monitors and reports on trends in a range of crimes including homicide, drug use by police detainees, deaths in custody, armed robbery, firearms theft, juveniles in detention, anti-money laundering and fraud against the Commonwealth.
- Produces and disseminates policy-relevant research reports that inform crime reduction and prevention strategies and criminal justice practice.

The Institute offers challenging and rewarding work for its staff in a highly professional and collaborative environment. Its researchers have diverse qualifications and experience and are able to undertake work in areas where they have specialist expertise and/or to apply their skills across a diverse range of projects.

Specialist quantitative research analysts will have a demonstrated track record in quantitative statistical analysis and should indicate their knowledge and experience in SPSS and Stata or other statistical packages and their experience in conducting at least some of the following: design and analysis of surveys; longitudinal data analysis; multivariate analysis; regression modelling; content analysis; network modelling; and/or structural equation modelling.

Depending on qualifications, skills and experience applicants will be appointed to either Research Analyst or Senior Research Analyst positions.

# Criminology

Get the edge on solving crimes...

Crime prevention is a challenge for all communities. Those with a background in maths and stats provide the edge in the fight against crime by providing valuable insight into criminal behaviour through the analysis and modelling of crime rate data.

Successful applicants will have a demonstrated ability in design and analysis of surveys; longitudinal data analysis; multivariate analysis; regression modelling; content analysis; network modelling; and/or structural equation modelling.

Depending on qualifications, skills and experience, successful applicants will be appointed to either Research Analyst or Senior Research Analyst positions.

Successful applicants will already hold, or will be able to obtain and maintain, an appropriate national security clearance while at the Institute.

#### Salary range:

- Research Analysts \$61,800 to \$77,300 (\$71,300 to \$89,200 remuneration package including superannuation)
- Senior Research Analysts \$79,400 to \$95,300 (\$91,600 to \$110,000 remuneration package including superannuation)

#### Duty Statement

Research Analyst / Senior Research Analyst (Quantitative specialist)

1. Design and undertake research projects with limited direction within an agreed program
2. Analyse, interpret and archive quantitative data
3. Write reports for publication and prepare presentations of research results for a wide range of policy and practitioner audiences
4. Present research findings in a range of forums – meetings, conferences and seminars
5. Liaise with stakeholders with respect to existing and potential research projects
6. Give statistical advice and support to other AIC research staff
7. Assist with planning and organisation of AIC roundtables and conferences
8. Other duties consistent with the operations of a small research organisation

#### Selection Criteria

Research Analyst / Senior Research Analyst (Quantitative specialist)

1. Demonstrated ability to initiate and conduct research projects using quantitative research skills with limited supervision.
2. Demonstrated ability in quantitative statistical analysis with experience in at least some of the following: design and analysis of surveys; longitudinal data analysis; multivariate analysis; regression modelling; content analysis; network modelling; and/or structural equation modelling.
3. Possess strong analytical and problem solving abilities.
4. Demonstrated ability to work independently, prioritise workloads and meets project deadlines.
5. Well developed interpersonal skills, in particular the ability to conduct consultations with individuals and organisations in government and non-government sectors, and to negotiate to obtain access to data.
6. A relevant four-year degree (minimum) in a field such as econometrics, market research, engineering, sciences, demography, psychology and/or criminology with a substantial quantitative methods component.
7. Willingness to undertake a range of duties consistent with the operations of a small research organisation.

Position description and selection documentation are available from: [www.aic.gov.au](http://www.aic.gov.au)

Further enquiries for the positions may be directed to Dr Research Manager, Modelling and Forecasting on telephone (02)

Applications must be emailed to [jobs@aic.gov.au](mailto:jobs@aic.gov.au) by no later than 5pm Sunday, 16 May 2010.

# Data Analysis

## More than just crunching numbers

Working with leading edge companies, mathematicians and statisticians are highly employable in the exciting field of marketing analysis.

**Stats and Data Analyst**

Sensory Solutions is a well established market research company based in Northmead, servicing a growing number of clients and are looking for a Statistics and Data Analyst.

The ideal candidate will be able to demonstrate the following skills:

- Skilled and experienced in numeric data entry
- SPSS skills (desirable but not essential)
- Highly accurate with an eye for detail
- Excellent oral and written communication skills
- Tertiary qualification ideally in Statistics or related field
- Advanced MS Excel and Word essential
- Team Player

This role is open to entry level graduates; however some previous experience in the market research industry would be highly regarded.

Previous experience in a market research company would be an advantage.

Please email resume quoting reference number above to

## Australian Bureau of Statistics

### Information Analyst - Information Management or Standards Development

Work in team environments that foster creative and analytical cultures

Information Management or Classifications/Standards Development

APS Level 5

\$59,227 - \$65,150 (plus superannuation)

Central Office, Belconnen, ACT

Do you have initiative, good judgement and the ability to organise and complete tasks?

Are you looking for a challenging and diverse role with an internationally recognised organisation?

Do you have an interest in contributing to the development of inter-agency standards for describing business processes and data?

Do you want to add value to a highly respected organisation by contributing to our goals?

Can you manage teams that achieve results?

If you are keen to work in a dynamic and challenging environment and you have the personal and professional qualities to make a difference, then we would like you to consider a career with the ABS.

As a team leader or member, you will participate in developing cutting edge solutions to support new and future developments in information management and/or the use and development of international metadata and data exchange formats. You will work with a diverse range of stakeholders and will be required to deliver quality outcomes within agreed timeframes and broad parameters set by senior management whilst exercising a degree of autonomy. A tertiary qualification in economics, social sciences, mathematics, information management or a related field would be highly regarded although not essential. Practical experience in business process analysis would also be an advantage.

If this opportunity appeals to you then find out more by first obtaining an applicant information kit at [www.abs.gov.au/careers](http://www.abs.gov.au/careers) or contact , Contact Officer on (02)

Please quote reference no. in all correspondence.

Applications must be received by 6pm Thursday, May 20, 2010.

To be eligible for employment with the ABS, you must be an Australian Citizen.

The ABS encourages and values a diverse workforce.

One APS Career...Thousands of Opportunities



[www.abs.gov.au](http://www.abs.gov.au)

make your mark

**Data Analysis Australia**  
STRATEGIC INFORMATION CONSULTANTS

**Positions**

**Consultant Statistician/Mathematician**

Reporting to a Senior Consultant, the Consultant Statistician/Mathematician is responsible for undertaking projects that are largely statistical, mathematical and data analytical in nature and includes project design, implementation and analysis of surveys, modelling and data management in a commercial environment. This is a collaborative team orientated role where projects may be handled from conceptualisation to the reporting of findings and will involve consulting with clients and working together with colleagues and staff.

Strong tertiary qualifications in statistics, mathematics or related discipline are required for this position, which will suit a person with ideally at least two years of relevant experience. A strong analytical background with practical experience in statistics, mathematics or quantitative sciences would be ideal. Well-developed interpersonal and communication skills are important as are sound report writing and data management skills and the ability to apply analytical knowledge to real-life problems in a commercial environment.

[Download selection criteria for Consultant Statistician/Mathematician](#)

**Senior Consultant Statistician/Mathematician**

Senior Consultant Statisticians work directly with clients on projects that are largely statistical, mathematical and data analytical in nature. Project tasks include project design and management, implementation and analysis of surveys, modelling and data management in a commercial environment.

A strong analytical background in statistics or mathematics and well developed interpersonal and communication skills are required for this position. It will suit someone with a minimum of four years' experience and at least a strong Bachelor or Honours degree in statistics, mathematics or a related discipline. Reporting to the Consulting Manager, this team role will suit someone with a desire to work on and solve clients' problems, to pass on their knowledge to other staff and who appreciates the challenges of working in a commercial environment.

Roles available for Senior Consultants at Data Analysis Australia include line management of consultants and other staff and involvement in the Senior Management Group.

[Download selection criteria for Senior Consultant Statistician/Mathematician](#)

**How to Apply**

Download and respond to the selection criteria for the relevant position and submit by post, email or hand delivery to the address below.

Please provide a copy of recent academic transcripts if appropriate

**Roy Morgan**  
Research

## Trainee Data Analyst

- Graduates Encouraged to Apply
- Full Time role in leading Market Research Company
- Fantastic Career Progression Opportunities

An opportunity exists for enthusiastic individuals to join Australia's most reputable market research company, Roy Morgan Research.

We are currently looking for exceptional individuals with tertiary qualifications in market research, Maths, Statistics or related fields to join our data analysis department located in the Melbourne CBD.

This is an important role in the company and will suit people with:

- Excellent communication skills
- Initiative
- Good computer skills – use of SPSS or similar package an advantage
- An analytical mind
- Strong attention to detail

**Duties of this role include:**

- Liaise with other departments to ensure thorough understanding of project brief and questionnaire design
- Learn to use and produce Market Research outputs using our award winning analysis software (ASTEROID) and other analysis tools
- Monitor outputs, deadlines, data quality and other project issues
- Analyse data using appropriate guidelines and techniques
- Edit and clean raw data for analysis
- Check all results to ensure final tabulations and databases are accurate and error free

The successful applicant will get to work in a professional, friendly environment and be trained in all aspects of the role. There is also opportunity for advancement and career development within the company.

If you want to work for a reputable, international company that encourages and recognises career development and growth, then send your resume to or click apply NOW!

*Discover your edge*

## Marketing Insights Analyst

- Exceptional work life balance
- Opportunity to utilise professional skills for a socially responsible cause
- Melbourne based role

World Vision is Australia's largest overseas aid and humanitarian organisation. As well as providing relief in emergency situations, we work on long-term development projects with local communities to address the causes of poverty and help them become self-sufficient. Our mission is to engage Australians in the effort to eliminate poverty and its causes.

This is a consultative insights driven role where you will be responsible for creating market based intelligence to drive communication, segment and product strategies. Working closely with the Marketing team you will profile, track and analyse supporter activity to discover behavioural patterns. Through the use of statistically robust methods of data analysis and concise reporting you will champion a culture of evidence based decision making.

Using SQL you will extract and manipulate large volumes of data to draw meaningful recommendations that support the various business activities. Creating and using predictive models such as churn, propensity and prospect will allow you to provide strategic insight on supporter initiatives.

The ideal candidate will have:

- Tertiary qualifications in Marketing, Maths, Statistics or other related numerate disciplines
- SQL data extraction experience
- Excellent communication skills with proven ability to communicate complex concepts to a non-technical audience
- Experience in predictive analytics with ability to create marketing/ supporter models would be advantageous

To obtain a copy of the full position description, visit the employment page of our website: [www.worldvision.com.au/AboutUs/JobsatWorldVision.aspx](http://www.worldvision.com.au/AboutUs/JobsatWorldVision.aspx). To express your interest in this role please send a resume, with a covering letter addressing these criteria, to

at

World Vision Australia has created a culture that is inspired by our core values and our work. To find out more go to [www.worldvision.com.au](http://www.worldvision.com.au).

**Applications close Monday 15<sup>th</sup> February 2010**

# Data Analysis

Your career in the aviation industry takes off **here**

airspace | airside | AIRSERVICES AUSTRALIA

## Safety Analyst and Researcher - ASA5

- Great opportunity in the aviation industry
- We have the training and development opportunity that you are looking for!
- ASA 5 \$63,550 - \$69,879 + 12.5% super

We are a government-owned corporation providing safe and environmentally sound air traffic management and related airside services to the aviation industry. In a region covering 11 per cent of the world's surface, we manage air traffic operations for around 63 million passengers on more than 4 million domestic and international flights every year.

The Safety Systems, Risk and Analysis Branch is looking for a Safety Analyst and Researcher to provide support to the Quantitative Modelling Manager in quantitative risk analysis and reporting of safety and environment data within Airservices Australia.

Working closely with the Senior Analyst and Researcher the successful applicant will:

- Provide direct support to airspace and environmental modelling projects and airport capacity studies in conjunction with fast time simulation applications
- Analyse incident and other reports relating to Airservices Australia safety related operations using trend indicators and statistical methodologies to provide insight and a breakdown of major factors
- Undertake ad hoc queries of Safety and Environment Group databases for internal and external clients
- Assist with computations for the development of new aircraft separation standards

To be successful in this role you will have high level written and oral communications skills and demonstrated experience in undertaking technical research, developing solutions and preparing quality reports on schedule and within budget.

To be considered for this position you must have tertiary qualifications or equivalent experience in computer programming, mathematics or physics, and be computer literate, for example through knowledge of a programming language or a demonstrated ability with technical software.

To apply for this position please lodge an application online via our website: <http://www.airservicesaustralia.com/careers>

Further information can be sought by clicking on the position description link or contacting on 02 8207 1000 or

**Updated\_Analyst\_and\_Researcher\_PositionD\_1APR2010[1].doc**

**Applications close 11.00pm Sunday 16<sup>th</sup> of May, 2010.**

Airservices Australia is a government-owned body corporate providing the aviation industry with services such as air traffic control, navigation facilities and aviation rescue and fire fighting.

Airservices Australia values social and cultural diversity and is committed to the principles of equal employment opportunity and the provision of a safe and healthy work environment.

In the interests of safety, we test for alcohol and other drugs.

Email: Please click the 'Apply Now' button below.

Airservices Australia values social and cultural diversity and is committed to the principles of equal employment opportunity and the provision of a safe and healthy work environment.

In the interests of safety, we test for alcohol and other drugs.

Airservices Australia is a government-owned body corporation providing the aviation industry with services such as air traffic control, navigation facilities and aviation rescue and fire fighting.

[www.airservicesaustralia.com/employment](http://www.airservicesaustralia.com/employment) **AIRSERVICES AUSTRALIA** 

# Defence

Can you keep a secret?

Defence is a big employer of mathematics graduates with a wide range of expertise. The work is varied and exciting, and offers great opportunity for career development.

Australian Government  
Department of Defence  
Defence Science and  
Technology Organisation



**DSTO**

## Communications Analysis Scientist

Make the smart move in science and technology. Join DSTO.

With a world class reputation for scientific excellence, DSTO provides science and technology support for Australia's defence and national security. Support DSTO's scientists and engineers to deliver innovative solutions. And share in the rewards – challenging projects, supportive team environment, family-friendly work conditions and long-term career development.

• S&T 5 • Salary: \$85,956 - \$96,958 + super • Location: Adelaide

Under minimal supervision and broad direction you will lead a small team to undertake research and development in the area of telecommunications analysis, and developing advanced analytic solutions to challenging problems in network analysis.

You can demonstrate specialist skills in areas of relevance to communications network analysis and network modelling, and possess a strong background in applied mathematics.

For information pack visit [www.dsto.defence.gov.au/careers](http://www.dsto.defence.gov.au/careers)

Applicants must quote: Applications close: 5 pm, Thursday 28 January 2010

*DSTO embraces workplace equity and diversity principles.*

### Science and Technology for a Secure World

Australian Government  
Department of Defence  
Defence Science and  
Technology Organisation



**DSTO**

## Defence Scientist – Networked Electronic Warfare

Make the smart move in science and technology. Join DSTO

With a world class reputation for scientific excellence, DSTO provides science and technology support for Australia's defence and national security. Work with skilled professionals and smart systems across a wide range of disciplines to deliver innovative solutions. And share in the rewards – challenging projects, supportive team environment, family-friendly work conditions, and long-term career development.

• S&T 5 • Salary: \$85,956 - \$96,958 + super • Location: Adelaide

DSTO is looking for a highly motivated individual to work, under limited guidance, as part of a small team conducting scientific investigations on unique Defence issues relevant to Maritime EW systems integration and network enabled operations.

The successful applicant will have completed a degree in Engineering, Physics, Mathematics or equivalent, and/or have acquired significant work experience relevant to the position.

For information pack visit [www.dsto.defence.gov.au/careers](http://www.dsto.defence.gov.au/careers)

Applicants must quote

Applications close 5 pm, Thursday 25 March 2010

*DSTO embraces workplace equity and diversity principles.*

### Science and Technology for a Secure World

Australian Government  
Department of Defence  
Defence Science and  
Technology Organisation



**DSTO**

## Future-proof Defence with science and technology

Join the cutting edge team at DSTO.

In 2009 the Defence White Paper confirmed DSTO's pivotal role in continuing to underpin Australia's capability advantage with deep science and technology expertise. Be part of the future DSTO that exploits advances in technology to maintain the Australian Defence Force's capability edge in the 21st century.

**We need:** Bright, motivated people who have completed (or are about to complete) undergraduate and post-graduate qualifications in disciplines related to:

- Engineering & Technology • Human, Social and Health Sciences
- Mathematics • Information, Computing & Communications
- Physical Sciences

**You will need** to demonstrate strong academic achievement, research skills or relevant experience, well developed communication and problem-solving skills and flexibility.

Positions are located at various DSTO facilities across Australia at these levels:

- S&T Level 3 (APS 4-5) \$55,660 – \$66,496 plus superannuation
- S&T Level 4 (APS 6) \$68,010 – \$77,690 plus superannuation

*The classification level depends on your level of qualifications, knowledge, skills and experience. For more information and to apply, visit: <http://www.dsto.defence.gov.au/grads/>*

**Applications close:** Sunday 11 April 2010

**We offer**

A stimulating and dynamic environment for innovation and creativity which has earned us a world-class reputation for scientific excellence. You will work with skilled professionals and smart systems across a wide range of disciplines to deliver innovative solutions. And you'll share in the rewards – challenging projects, a graduate induction program, a supportive team environment, family-friendly work conditions, generous super and long term career support through continuing education and professional development.

*DSTO embraces workplace equity and diversity principles.*

### Science and Technology for a Secure World

# ECONOMICS

*Help build a strong economy...*

*Do you want a future that is supported by a strong economy?*

*Well those in economics play an important role in this regard by interpreting past and current data to provide guidance for the future. What type of people are good with data? Well, those with maths and stats...*

## *Senior Consultant (Economist) - Canberra*

- Strategic Planning and Economic Development Analyst
- Quantitative Role
- Have an impact on national and state policy
- Competitive Package

SGS Economics & Planning is a dynamic and highly successful firm of national urban and regional economists and planners who provide advice in a range of policy areas including strategic planning, housing and infrastructure policy, program evaluation, public sector governance, indigenous development and social cost-benefit analysis. We are looking for a Senior Consultant for our Canberra office which is located in Dickson.

To be considered for the position, you will hold a degree and/or post graduate degree in economics and will have worked in a relevant public or private sector position. Applicants must demonstrate a high level of academic achievement. The successful applicant will be tertiary qualified in economics, statistics or similar and will preferably be post-graduate qualified. You will have a solid knowledge of ABS and other data sets, excellent excel skills and be familiar with a range of econometric and modeling techniques, although further training will be provided as part of your ongoing development. Most of all you will have a passion for thinking through public policy issues. Preferred applicants will have five years applied experience as a consultant or analyst in a similar role.

Beyond that we are looking for applicants who are open to new ideas and change, enjoy working in a team, and enjoy a challenging work environment. Those with knowledge of federal and state government processes are highly desirable.

As an operational consultant you will also be expected to possess strong report writing and verbal communication skills. The firm's policy is to reward performance and all consultants are given the opportunity to develop a range of consulting and project management skills across a wide range of consultancies.

In return you will enjoy a supportive and flexible environment working. A competitive salary and the chance to work interstate also form part of this position.

Self starters and those who demonstrate initiative, adaptability and a passion for urban and economic planning need only apply.

Applications including a covering letter and resume should be submitted to [REDACTED] by Friday 25th June 2010. For further details regarding SGS please visit [www.sgsep.com.au](http://www.sgsep.com.au).

Administrator - Canberra Office  
SGS Economics and Planning

## *Quantitative/Econometrics Consultant*

- Economic Analysis and Strategic Planning
- Flexible Work Environment
- Young and Dynamic Office

SGS Economics and Planning is a highly successful national firm of economists and planners, dedicated to helping business and governments make successful policy and strategy decisions. We provide advice in a range of economic and policy areas including strategic planning, housing, infrastructure policy, program evaluation, public sector governance, business/development planning and economic development. SGS is looking for a person with a strong set of conceptual, analytical and quantitative skills combined with good report writing skills.

The role would have a range of duties including:

- Applying existing in-house models to project based problems;
- Providing quantitative support to job managers;
- Assisting in the development of new quantitative and modeling techniques (using Excel and other software);
- Undertaking primary research, including data collection and analysis; and
- Contributing to the development of the business through assisting with proposals for new work involving quantitative analysis and the continuous improvement of the firm's quantitative capability.

The successful applicant will be tertiary qualified in economics, econometrics, statistics, actuarial studies or similar, and be a graduate with exceptional academic results. Some applied experience gained as a consultant or analyst would be an advantage. From your studies, you will be familiar with a range of econometric and modeling techniques, have an understanding of ABS (and other) datasets and have well developed report writing skills.

SGS is keen to help you build on your existing skills with both formal and informal training. There is opportunity to learn through direct contact with SGS Directors and other senior staff who bring together a wide range of skills and experience. In addition, opportunities will be provided to develop general consulting and project management skills across a range of interesting and challenging projects.

In return for your commitment, enthusiasm and expertise, you will enjoy a competitive salary and exciting career prospects, including the potential to work interstate and the opportunity for ongoing professional development. Self starters and those who demonstrate adaptability, strong conceptual skills and initiative are highly sought.

Come and join an enthusiastic team of economists, planners, statisticians, environmental scientists and urban geographers who are passionate about making a difference to public policy.

To apply or obtain a full position description please contact [REDACTED]

For more information about SGS please visit [www.sgsep.com.au](http://www.sgsep.com.au).

Applications close Monday 8 February 2010

# Energy

Maths grads, we need you!

Two key roles of the energy sector revolve around environmental impact issues and cost to the customer. Mathematicians are invaluable resources for energy companies. They can assist in improving the efficiency of energy distribution and consumption.



**Energy Market Data Analyst**

The Australian energy industry is currently in exciting times, and the Australian Energy Market Operator (AEMO) plays a unique role in Australia's energy sector. We offer our people unrivalled opportunities to learn, develop and advance within our wide spectrum of electricity and gas market and operational functions. The Transmission Services department is one of four departments within AEMO responsible for delivering core functions across Australia's gas and electricity markets. Its functions include the provision of forecasting services and delivery of AEMO's adoptive jurisdiction functions as set out in the National Electricity Law.

We are currently seeking to employ an Energy Market Data Analyst on a contract basis until January 2011 to cover a maternity leave absence. Based in our Adelaide office, the Energy Market Data Analyst will be responsible for electricity forecasting including the development, implementation and assessment of models, provision of technical advice and utilisation of their modeling expertise.

You will possess advanced data management skills which will enable you to gather the appropriate information needed to model energy consumption accurately. You will be comfortable managing and mining large volumes of data and enjoy setting up queries and manipulating data to create meaningful information. You will also be able to identify and collate information on the drivers that impact the market.

To be successful in this exciting role, you will have qualifications in a numerate function such as statistics, mathematics or engineering. You will have been operating in a business environment for 3 years and thrive on mining and manipulating data. You will be able to run queries and complete data trawls, understand and utilise relational databases and be highly computer literate. Ideally, you will have been operating in the energy industry, however this is not essential.

This position may be considered for part-time candidates and offers an attractive remuneration package.

To request a full Job Profile please email [...](mailto:...). For further information or for a confidential phone discussion, please contact our HR Partner, [...](mailto:...), Ceefa Consulting on 04



**Digital Core Analysts - Canberra**

Our client is a leading provider of 3D high resolution image based core analysis and petrophysical services to the oil and gas industries and are seeking the services of experienced digital core analysts.

These roles include computational analysis of rock samples, preparation of visualisations and animations, critical appraisal of analysis results and assisting clients in developing solutions to reservoir characterisation difficulties.

Successful applicants will have:

- A strong background in engineering, mathematics, physical science or IT
- Excellent communications skills, both verbally and written
- High levels of computer literacy
- Knowledge of the oil and gas industry and/or geological, petrophysical or reservoir engineering experience

Please send your resume to [...](mailto:...) or **APPLY BELOW!!**

Please click the 'Apply Now' button below.  
[www.baraketconsulting.com.au](http://www.baraketconsulting.com.au)

Sydney: Ph 02 Fax: 02	Melbourne: Ph 03 Fax 03	Brisbane: Ph 07 Fax 07
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We are an EEO employer, where all applicants are treated with fairness and respect and have equal access to the opportunities available.

Become part of  
the bigger picture.



As Australia's number one green energy provider we don't just talk about flexibility, innovation and sustainability. Each of the almost 4,000 people who work with us plays a vital role on our journey. Their passion, dedication and creativity are helping us make a difference.

We're actively pursuing major development projects across the supply chain - from coal seam gas and offshore exploration and production projects through to significant expansion of our generation and retailing capabilities. As one of Australia's top 20 listed companies, by market capitalisation, we're continuing to expand across Australia and internationally. With strong leadership and vision, we're growing - fast.

## (T) Petroleum Engineering Assistant

We are seeking a motivated individual to become part of our Petroleum Engineering team, and support in the development of a wide range of oil and gas fields.

This Brisbane based role, will provide support in production data management, data manipulation and report generation to petroleum engineers to facilitate the analysis and reporting to internal management, joint venture (JV) and government departments.

This will include:

- Maintenance of engineering production databases including building a knowledge and experience of the engineering software used in development and production optimisation of hydrocarbon accumulations
  - Maintenance of the compliance database as it relates to petroleum development activities including PL reporting, JV/Government monthly reporting and JV/Origin budgets
  - Preparing, manipulating and inputting engineering production data into databases assistance with technical interpretation for each asset
  - Reviewing and recommending any optimisation in the production database systems
  - Data and report preparation, generation and presentation
- To be successful in this role you will have:
- Familiarity with database systems including the methods of field data extraction, data manipulation and quality control
  - Good understanding of JV and government reporting requirements
  - Exposure to petroleum industry practices and reporting requirements
  - Computer knowledge of engineering and Microsoft software would be well regarded
  - Possess good communication and interpersonal skills
  - Have 3-5 years experience in a similar or equivalent role
  - Be passionate about delivering high quality outcomes
  - Degree in Engineering, Mathematics or Science would be highly regarded but not mandatory

Our people are passionate about what they do and truly embrace our values of care, listen, learn and deliver to make a difference together. Join us, a leader in sustainability, and be a part of our exciting journey.

Our growth means new opportunities are emerging all the time. Set up a job alert and be the first to know about them.

Origin is an equal opportunity employer and committed to continuous improvement in the sustainability of our environment, social and economic activities.

[originenergy.com.au/careers](http://originenergy.com.au/careers)

"Together we can  
make a difference."

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# Engineering

## Set the wheels in motion...

Use your mathematical problem solving skills in designing and implementing tomorrow's technological breakthroughs whether they be in energy and power through to technical support and information technology.

### VACANCY MGT040

#### Senior R & D Project Leader

APPLIED MATHEMATICIAN - RESEARCH & DEVELOPMENT - TECHNICAL SERVICES

We have an opportunity for an experienced applied mathematician to join the Research & Development (R&D) Team at Queensland Alumina Ltd, as an R&D Project Leader.

After an induction period, the successful candidate will be expected to rapidly develop expertise in transport phenomena fields of Bayer process. Critical to the Project Leader role is the ability to identify, initiate and lead projects, delivering technological and process improvements. The successful candidate will be required to develop and maintain relationships with plant based customers, thereby enabling you to recognise improvement opportunities and to advance projects. You will also act as the technical specialist in your area of expertise and provide technical advice to others.

This is an excellent role to continuously enhance your applied mathematics expertise and make it applicable to solving industrial issues.

[See over for qualifications/skills & attributes suited to role:](#)



#### Qualifications and skills required

- MSc or preferably PhD in Applied Mathematics or Physics.
- Strong, practically oriented applied mathematician, preferably with experience in applying his / her mathematical skills in solving engineering and hydrometallurgical process problems.
- Demonstrated understanding of mathematics and ability to model transport phenomena, population balances and crystallisation processes.
- Ability to use CFD modelling packages such as Fluent + CFX and meshing software to solve engineering problems and to understand additional models, while thoroughly understanding the underlying models and assumptions.
- Experience in coding in a number of different languages, including C++, Matlab and VBA.
- Understanding of process flowsheet modelling packages, for example Aspen or SysCAD.
- Ability to develop models to both laboratory data and plant physical/chemical processes.
- Excellent command of English language (both spoken and written).

#### Personal preference and characteristics

We are looking for a person who is passionate about conducting applied research in an environment where he / she can see results of his / her work being implemented in a mineral processing plant, delivering tangible business benefits.

The candidate must be a team player who is able to work in multidisciplinary teams with engineers and chemists.



## Control Engineer

My Brisbane based client has an exciting opportunity for a talented Control Engineer with experience in designing control algorithms for machine control applications to join the Software Engineering team based in BRISBANE.

Responsibilities of the role include:  
Design and validate control systems for the control of ground based vehicle guidance systems  
Develop and document quality control systems and control software implementations to user and functional requirements within specified timeframes  
Work in a team to design, test, and develop software written in C++ on an embedded platform

Degree in Robotics Engineering, Mechatronics Engineering, Control Engineering, Mathematics or Physics

Postgraduate qualifications in related field, desirable but not essential

Demonstrated Competence in the following:

Designing and specifying a feedback control system from sub-system specification through to implementation and testing

Demonstrated experience developing kinematic and dynamic mathematical models in MATLAB and Simulink

Demonstrated experience to work in a team on different tasks in parallel

Possess working knowledge of GPS and inertial navigation

Desired Experience:

Experience with or understanding of real-time control systems

Experience working with positioning sensors including GPS receivers, Inertial systems, LIDAR and Vision Systems

Experience working with hydraulic control systems

Experience working with positioning sensors including GPS receivers, Inertial systems, LIDAR and Vision Systems

Experience working with hydraulic control systems

This is a permanent opportunity.

Please forward CV's to Tel 07

Please contact Interpro quoting reference number  
Phone: 07 • Fax 07  
Email: Please click the 'Apply Now' button below.

**interpro**

Interpro - It's the people we know

# Environment

Help protect the future...

It has never been more important for us to research and develop new technologies that allow for a harmonious co-existence with the environment. Analytically skilled people are crucial to the cause - from predicting future outcomes by modelling new technologies to analysing current data allowing us to pinpoint areas requiring improvement.

**KELLY SERVICES**

CAREERS BUSINESS SERVICES About Us Contact Us

**Find A Job**

**Job Details**

You can apply on-line by clicking the link below the job.

**Senior Environmental Consultant**

- **GOVERNMENT AGENCY**
- **GET PAID FOR YOUR EXPERTISE**
- **CONTRACT ROLE**

A Government Agency is looking for experienced and senior environmental consultants. There are two contract positions available. One will be a 9 month maternity leave contract and the other role is a newly created position which will initially be for 6 months with the possibility of permanency.

Qualifiers:

1. Degree or postgraduate qualifications with experience in:
  - Environmental microbiology (cyanobacteria)
  - Environmental/Water resource statistics and/or modelling
  - Geographic Information Systems
  - Hydrology
2. Qualifications or experience in Visual Basic, ArcGIS, data extraction from complex databases would be advantageous

The duties of the successful candidate will participate in a range of tasks:

- Support the development of a grazing pollutant evaluation model.
- Develop an empirical model for prediction of cyanobacteria risk in SCA storages.
- Assist design and implementation of risk assessments for pathogen sources.
- Undertake desk top analyses of water quality and/or quantity data and literature research.
- Prepare relevant information to support the development of instream fate and transport models.

If you feel you have the appropriate qualifications please send a CV and cover letter addressing the criteria above to  
or use the apply button below.

Please send CV's in WORD DOC only. NO PDF's please.

You must have the correct VISA / Work Rights for Australia to apply for this position. Only short listed candidates will be contacted.

**Job Ref:**

**Location:** Sydney - West

**Job Type:** Contract / Temp

**Submitted :** 09-06-2010



**Career Opportunities**

**Climate Risk Research Scientist**

**80 years: Australian science, Australia's future**



**The Position**

- Do you have a strong track record of undertaking innovative research?
- Are you highly motivated and committed to team-based processes & outcomes?
- Apply your expert knowledge in CSIRO & really make a difference!

CSIRO Marine and Atmospheric Research (CMAR) are currently seeking a Research Scientist to conduct research on climate change science, risk assessment, adaptation and vulnerability. This position will be in Aspendale, Victoria, Australia.

**Specifically the role will involve:**

- Working closely with scientists and other professionals in CSIRO, universities, industry and government agencies undertaking research on climate change vulnerability assessment;
- Developing innovative approaches for vulnerability assessment, including risk framing and evaluation, adaptive capacity metrics, links between biophysical and social and economic impacts, levels of "dangerous" climate change, and management of uncertainty;
- Researching the processes for translating assessments into policy as part of a broader adaptation plan;
- Publishing technical reports, consultancy reports and journal papers. Communicating results through seminars, workshops and conference presentations; and
- Managing projects from client engagement to delivery, on time and on budget.

To be considered you will hold a PhD in environmental science/policy or an equivalent field, have at least 3 years postdoctoral research experience in environmental sciences, and can demonstrate:

- A good understanding of climate change science and risk assessment frameworks;
- Experience in statistical analysis;
- Excellent written and oral communication skills, including demonstrated experience in publishing papers in scientific journals and presenting material at workshops and conferences; and
- An ability to engage clients to determine their needs and take responsibility for client satisfaction.

**In return you will be rewarded with:**

- CSIRO's commitment to Diversity, Health, Safety & the Environment;
- Up to 15.4% Superannuation.
- Flexible Working Arrangements and enhanced leave entitlements;
- Employee Assistance Program;
- Active Benevolent Fund.

**Located in:** Aspendale, VIC

**Salary Range:** \$83K to \$90K plus up to 15.4% Superannuation

**Tenure:** Indefinite/Ongoing



## Research Assistant Department of Epidemiology and Preventive Medicine

- Leading international university
- Innovative and creative environment
- The Alfred Hospital, Melbourne

### The Opportunity

An exciting opportunity is available to join the Transfusion Research Unit located in the Department of Epidemiology and Preventive Medicine at The Alfred Hospital.

The position involves assisting with the day-to-day running of a variety of projects and requires extensive liaison with ethics committees, medical and research staff, and other internal and external parties.

The position is flexible in its appointment of a full-time or part-time employee (0.8).

A tertiary qualification is required. Excellent communication and organisational skills are essential as are knowledge of good research practice, basic epidemiology and a basic understanding of biostatistics.

Experience in ethics, a background in medical research and experience with statistical software packages are desirable.

All applications should address the selection criteria. Please refer to "How to Apply for Monash jobs" below.

### The University

Monash University has a bold vision - to deliver significant improvements to the human condition. Distinguished by its international perspective, Monash takes pride in its commitment to innovative research and high quality teaching and learning.

### The Benefits

Remuneration package: \$56,380 - \$64,761 pa HEW Level 5 (includes employer superannuation of 9%)

This role is a full-time position.  
may be necessary.

# Epidemiology

Uncover a healthy career!

The increasing need for determining factors that affect the health of populations makes biostatisticians with a focus on epidemiology, highly sought after candidates!

### The Benefits

Remuneration package: \$56,380 - \$64,761 pa HEW Level 5 (includes employer superannuation of 9%)

This role is a full-time position, however flexible working arrangements may be negotiated.

Monash offers a range of professional development programs, support for research, study and overseas work, generous maternity leave and flexible work arrangements.

### Duration

12 month appointment

### Location

The Alfred Hospital, Melbourne

### Enquiries

Ms [redacted] on

### Ref No

### Applications Close

Thursday, 24 June 2010

An Equal Opportunity Employer  
EOWA Employer of Choice for Women



All applications should address the selection criteria. To view the position description and selection criteria click on the APPLY NOW button below where you will be redirected to the Monash website.

**Go Boldly.**

# Finance

Not just for commerce graduates...

It's not just commerce graduates who are employed in the finance industry!

The finance sector is a big employer of mathematics graduates because of the advanced quantitative and analytical skills that come from studying maths.

"Finance" is an umbrella term covering banking, the stock market and other forms of investment, insurance, and the regulation of these areas.



## Stress Testing Analyst

The purpose of the Risk Management Division is to analyse, quantify, manage and report on all types of business risk affecting the Bankwest Group.

The Strategic Risk Analytics Department within Risk Management is looking for a motivated and innovative person with strong analytical and mathematical skills to be a Stress Testing Analyst.

### This position will include the following duties:

- Running regular and ad-hoc stress tests on Bankwest's loan book
- Validating and recalibrating existing stress testing models
- Developing and documenting more accurate or relevant stress testing models
- Educating and informing various parts of the Bank on stress testing
- Consulting internal stakeholders on desired inputs and outputs to the stress testing process
- Reporting on the outcome of specific stress tests to internal stakeholders

The successful applicant will have a tertiary degree in a relevant technical or business field, such as Mathematics, Statistics, Actuarial Studies or Commerce.

You must be willing to learn existing risk modelling techniques, and to contribute towards further development in this area.

Some previous programming experience would be helpful, and familiarity with SAS and Microsoft Excel would be a definite advantage.

Queries can be made to (08)

Closing Date 25th June 2010

## Risk Analyst - Financial Services

- Highly visible role
- Drive the implementation of risk solutions

### About our Client

Our client is a reputable financial services organisation who are currently experiencing an exciting phase of growth. Due to this growth, they are looking to expand their Group Risk team with the addition of an experienced Risk Analyst.

### Job Description

As a Risk Analyst, you will primarily be responsible for conducting analysis of loan portfolio performance through the evaluation of company credit risks. You will be exposed to portfolio analysis, credit risk and operational risk with additional accountabilities including the following:

- Identify and research macro and micro economic indicators in order to understand portfolio performance adequately
- Research and recommend pricing changes
- Develop and apply incisive information models to determine the potential impact of identified risks
- Recommend and implement effective commercial strategies to control, reduce or eliminate material risks.
- Analyse and respond to business unit feedback where appropriate
- Design and deliver comprehensive risk/compliance/fraud awareness programs
- Build and maintain effective relationships with relevant business partners and stakeholders

### The Successful Applicant

To successfully secure this role you will be degree qualified in Statistics / Mathematics / Economics or a relevant discipline combined with relevant risk experience, preferably gained within a financial or professional services organisation. You will have a strong analysis background with modelling skills looked upon favourably. Confident communication skills are essential as you will be partnering with both internal and external stakeholders on a regular basis.

### What's on Offer

- Opportunity to participate in a 6 month rotational program
- CBD location
- Excellent opportunity for career progression
- Professional and team orientated environment

To apply online please click the 'Apply' button below. For a confidential discussion about this role please contact quoting reference number on

## Senior SAS Credit Risk Modeller/Analyst x2, Melbourne VIC

My client is one of the most impressive organisations in the APAC region. With continued growth & an exciting raft of new challenges facing them in this new financial year they are looking to increase the capabilities of their Analysis & Modelling teams. Because of this they are now looking to hire 2 Senior SAS Credit Risk Modellers/Analyst's.

These are high profile roles, located within the Retail Credit Risk function of my client & I am looking for candidates capable of assuming a Senior position within the business. This role will be looking at a wide range of Credit Scoring Models as well as other assessment tools and you will be responsible for their development & maintenance in addition to looking at their usage within the wider context of Credit Risk strategies. You will also be heavily involved in Capital Modelling/Basel II projects looking at PD, EAD, LGD etc models across the entire credit lifecycle and across retail banking portfolios. As well as being a strong Credit Risk Modeller & Analyst you will require strong Project Management skills as you will be required to deliver new process or methodology changes across the portfolios so a good knowledge of portfolio management would also be useful. As a senior you will be expected to be a technical & thought leader & mentor & influence junior team members.

This is a true end to end Credit Risk role. You will be involved right from project scope definition onwards & be involved in the design & development of Analytical solutions so good project management skills are key as you will need to manage expectations, stakeholders & ensure you deliver. In terms of Statistical Models you will build ones for usage right across the Credit Life-cycle & also be involved in the development & maintenance of Application & behavioural Scorecards. On a strategic level you will influence Credit Risk Strategy, lending strategies etc. You will be required to engage & build strong relationships with managers across a wide range of business areas & across multi functional/disciplinary teams.

Successful applicants should have a strong academic background with good Numerical/Statistical academics (eg Mathematics, Statistics, Operations Research), ideal candidates will have strong Credit Risk backgrounds with past experience in building Credit Risk Models, Scorecards & have portfolio management experience. However, candidates with extremely strong Analytical/Modelling backgrounds from a non-Credit Risk background will be considered (eg Insurance, Financial Services Marketing etc). On a technical level I am looking for proven, solid (ie day in day out) experience programming with SAS (Base SAS). Candidates without SAS will be considered but you must have very strong programming skills in another language. Candidates without SAS and/or Credit Risk experience will need to be more flexible than usual in terms of salary expectations.

In return you will be working on large scale, high profile projects & be working end to end on Credit risk projects. With a well defined path into Management available to candidates (in addition to other internal opportunities) this role will provide talented & ambitious Analysts/Modellers with the stepping stones to take their careers to the next level. With a supportive peer network, excellent leadership & a first class working environment this really is a place designed to help you excel. My client offers superb training & development to its staff & has a superb reputation in its industry. If you are a first class Analyst/Modeller who is regarded as one of the best then this is the role for you. Superb prospects, great location, outstanding projects and work content. Interested candidates should apply ASAP with an up to date CV (Word Format) or call [redacted] on 02 [redacted] for a confidential discussion.



## Quantitative Analyst, Project Based Assignment – 6 - 9 Month contract

Quantitative Analyst, Project Based Assignment – 6 - 9 Month contract

Validation and Systems implementation  
Project Based Role – Interest Rate Derivatives, EMTNS & FI  
Enquire Further for Salary Information

Major bank requires an experienced interest rate derivatives quant to run a high profile project to introduce modeling and validation framework to the global risk management function.

This project based role will take two forms:

creation and completion of interest rate derivatives validation  
Implementation of a external validation system

The suitable candidate would ideally have previous experience working in a financial institution and has had held the responsibility for independently validating financial models and complex derivatives. You would have likely been a quantitative analyst for software vendor, a bank or a consultancy.

You Must have;  
Proven experience with managing large scale quantitative methodology development, validation and systems implementation  
Experience in validating complex interest rate/FI derivatives  
Exceptional mathematics/statistics or financial econometrics background

It's Nice to have;  
Interest rate modeling and experience developing quantitative risk methodologies pertaining to traded products  
PhD - financial mathematics or econometrics preferred

Apply for this position if you satisfy the above criteria and you have a genuine interest to work on an exciting project with a major bank.

Call [redacted] of BlackOcean Recruitment on +61 2 [redacted]

Email: Please click the 'Apply Now' button below.

# Finance

**SHK: RANKING**

## CREDIT RISK ANALYST

- CBD
- NEWLY CREATED ROLE
- COMPETITIVE SALARY PACKAGE

Armed with a growth strategy in 2010, this leading financial services company is actively expanding their Risk business and currently seeking to appoint a talented Credit Risk specialist.

Using SAS, you will measure, monitor and report on the performance of consumer lending portfolios throughout the credit lifecycle. You will identify and document business cases for critical areas of credit risk and provide accurate information to business stakeholders in order to mitigate risk and improve portfolio profitability. In addition, you will have input into implementing and maintaining application and behavioral scorecards as well execute ad hoc investigations and reporting as required.

To be considered, you will present with previous experience as a Credit Risk Analyst, have well developed skills in SAS and hold relevant tertiary qualifications in finance, commerce or statistics.

The ability to develop and maintain relationships as well as provide sound technical advice and guidance to senior management and business stakeholders will be critical to your success.

To register your interest in a confidential career discussion, please respond below quoting or go to [www.shk.com.au](http://www.shk.com.au). For more information, please contact at SHK on .

Email: Please click the 'Apply Now' button below.

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WE KNOW WHERE...

**SHK.COM.AU**

## Reinsurance Pricing Analyst

recruiting and consulting with insight

**Highly sought after employer  
Excellent career progression  
Attractive salary package**

This is an opportunity with one of the worlds largest and most successful international Reinsurance and financial services providers. It has built its reputation on the excellence of its people and is renowned for its technical expertise and innovative product range across Life and General Insurance.

Working within the Treaty Underwriting division, this role will work closely with the underwriters to assist in the pricing and underwriting of treaty business. You will be involved in other pricing and portfolio modeling work, and work with the business on developing and updating pricing tools. Another important facet of the role will involve working with the underwriting and client focused teams , to assist in the communication of their pricing methodologies.

The successful candidate will be able to demonstrate a blend of strong technical skills along with good interpersonal and communication skills. Tertiary qualifications in Actuarial or Mathematics is essential along with a background in pricing, modeling and analysis within a general insurance environment. You will be proficient in current modeling software tools including advanced spreadsheet skills.

The organisation is a sought after employer, and offers excellent opportunities for career progression and personal development.

To apply online, please click on the appropriate link below. Alternatively, for a confidential discussion, please contact on 02 quoting the Job Title and Ref No.

**porter allen**   
[www.porterallen.com.au](http://www.porterallen.com.au)

# Finance

**BLACKOCEAN**  
recruitment

**Junior Quantitative Analyst - Statistician**

Institutional Banking – Group Quantitative Analytics  
Statistics and Econometrics Honours and Masters Graduates  
Career progression into quantitative management in econometrics

A unique opportunity has transpired for a junior statistician to work for an iconic bank within the front office quantitative analytics group which develops and validates the credit risk models in portfolio analytics.

The successful applicant will be working with senior quantitative managers in the statistical development of quantitative models used to assess credit risk characteristics of the bank's institutional portfolios. There is a heavy emphasis on statistical and econometric modelling and the team is devoted in utilising sophisticated methodologies which constitutes regression and logistic modelling, time series analysis, general liner modelling, Kalman Filter, Bayesian, sequential Monte Carlo, particle filters, stochastic volatility, (G)ARCH processes, factor modelling, bootstrapping, principle components and many others.

experience in statistical modelling with no credit risk or banking experience are also encouraged to apply.

You can expect a comprehensive training program dealing with credit risk portfolio analysis and strategy ensuring career progression in quantitative and risk management positions at a senior analyst or managerial level!

To apply for this position, hit the **APPLY** button below or contact from BlackOcean Recruitment on ( ) for a confidential discussion.

Email: Please click the 'Apply Now' button below.

**bankwest**

**Sanctioning Strategy Analyst**  
Retail Credit Risk - Perth

Our Sanctioning division which sits within Retail Credit Risk is responsible for the management and analysis of home loan acquisitions to improve the quality and efficiency of the Sanctioning function.

An opportunity exists for a Credit Analyst to support the Head of Secured Credit Risk and Head of Sanctioning providing strategic analytics, performance reporting and ad hoc analysis to support the decision making process.

These responsibilities are an integral part of credit risk management within the Retail Division. They contribute to the increased effectiveness of the Sanctioning process, reduction of credit losses and maximisation of retail opportunities within risk appetite.

You will primarily be responsible for;

- Undertaking strategy analysis, modelling and segmentation to provide insight into sanctioning decision making and the effectiveness of policies and procedures.
- The provision of ongoing ad hoc analysis and recommendations for senior management, sanctioning and credit risk staff on the performance of mortgage applications and existing book.
- Maintaining business partner relationships to ensure smooth and efficient processes and two way communication and cooperation
- Developing and implementing continuous improvement initiatives to provide business benefit.

You will primarily be responsible for;

- Undertaking strategy analysis, modelling and segmentation to provide insight into sanctioning decision making and the effectiveness of policies and procedures.
- The provision of ongoing ad hoc analysis and recommendations for senior management, sanctioning and credit risk staff on the performance of mortgage applications and existing book.
- Maintaining business partner relationships to ensure smooth and efficient processes and two way communication and cooperation
- Developing and implementing continuous improvement initiatives to provide business benefit.

You will have;

- Previous experience in mortgage business or retail banking.
- A tertiary qualification in a mathematical or business related field (e.g. commerce, mathematics)
- Exposure to packages such as Business Objects and SAS.
- Strong attention to detail and ability to provide accurate and valid reporting
- Excellent communication interpersonal skills

To apply click on the **apply online** button below.

For any queries in relation to this particular position please don't hesitate to contact from the Bankwest Careers Centre on 08

**Bluefin Resources**  
Risk Management

**Quantitative Analyst - Market Risk**

- Love to travel for work and get paid for it!
- Client Facing
- Long Term Potential

**The Role.**  
Working with clients and providing your market risk quantitative analysis expertise in particular with Derivatives within non-financial services firms - Derivative Accounting. Areas of coverage: trading floor model validation, modelling for hybrid products, measurement of market risk arising from market movements, hedging of derivative products.

This is a perfect opportunity for someone that likes to work with senior stakeholders such as treasury managers and up to CFO's, working in a variety of engagements and really see the fruits of your expertise.

**Key responsibilities are:**

- Hedging positions
- Troubleshooting, process improvement and new product implementation into the market risk engine
- Development and enhancement of risk measuring & monitoring techniques and tools
- Quantitative Analysis for Board Reporting to Clients

The roles offer the opportunity to gain exposure to a wide range of clients within clients within Energy & Corporate. Product ranges covered by the area include: Interest rates/Credit, Foreign Exchange, Equities, and Commodities/Energy.

**The Applicant**

A post graduate degree (preferably PhD level) in quantitative finance/actuarial/mathematics/statistics/IT (or similar) is a pre-requisite. It is expected that you have studied and achieved strong results in quantitative subjects applicable to financial markets risk analysis

**Skills and experience requirements include:**

- Strong mathematical skills, along with MS Excel, Access & VBA
- Good knowledge of C++, SQL
- Familiarity with derivatives
- Excellent attention to detail
- Ability to work in a team
- Work on simultaneous high profile projects
- Good communication skills
- Ability to meet deadlines, perform multiple tasks and manage complex processes
- Previous experience in market and/or counterparty credit risk.

**The Organisation**

Excellent reputation within their market, supportive management and knowledgeable team. Great remuneration package, tertiary study support plus benefits.

For this and other quantitative analysis opportunities please call quoting reference

For more information on this opportunity,  
please contact Bluefin Resources on  
or email

If this job isn't quite what you are looking for, please feel free to contact us to discuss other opportunities in the market place.

# Careers in mathematics

# maths and the



**“Mathematics has enabled me to provide AFL clubs with insight into their team’s on-field performance.”**

Don Forbes  
Football Data Analyst, Champion Data, Melbourne, VIC  
and Sports Manager, VICBET.com, Caulfield, VIC

Watching and analysing football matches for a job may sound too good to be true, but that's where mathematics has led Don Forbes. While working on his PhD on Australian Rules football statistics, Don worked with the League's official information provider, Champion Data. His role involved analysing match and season data, and producing reports to help teams improve their on-field performance.

**EDUCATION SUMMARY**

Secondary	St Joseph's College, Nudgee, QLD (Mathematics I and II)
Tertiary	<ul style="list-style-type: none"><li>Bachelor of Science (Mathematics)/ Bachelor of Laws, University of Queensland, St Lucia, QLD</li><li>Graduate Diploma of Applied Science (Social Statistics), Swinburne University of Technology, Hawthorn, VIC</li><li>PhD, Swinburne University of Technology, Hawthorn, VIC</li></ul>

Don Forbes

# maths and the financial analyst



**“Mathematics helps me make financial assessments of multi-million dollar corporate projects.”**

Andrew Newman  
Associate Director, Mergers & Acquisitions  
Transaction Advisory Services (Corporate Finance)  
Ernst & Young, Adelaide, SA

The high profile world of investment banking and project finance can be daunting, but a solid foundation in mathematics and statistics has paved the way for Andrew to deal with the complex and challenging analysis involved. At Ernst & Young, he is involved in planning and managing multi-million dollar projects. He has prepared financial models for the acquisition of an automotive components distributor and conducted risk analyses for a medical research facility and water infrastructure.

**EDUCATION SUMMARY**

Secondary	Prince Alfred College, Adelaide, SA (Mathematics I and II)
Tertiary	<ul style="list-style-type: none"><li>Bachelor of Science (Honours) in Applied Mathematics, University of Adelaide, SA</li><li>Graduate Diploma in Applied Finance and Investment, Securities Institute of Australia</li></ul>

Andrew Newman

# The possibilities are infinite

## maths and the system biologist

“So many of the world’s phenomena can be better understood using mathematics.”

Lucia Santoso  
Postdoctoral Fellow in Bioinformatics  
Centre for Bioinformation Science  
The Australian National University, Canberra, ACT

Unlocking the mysteries of life through mathematics is what Lucia Santoso loves best about her work. Her position as a research fellow is in the emerging field of bioinformatics, which uses mathematics to unravel biological problems.

Her work involves performing simulations of gene-protein interactions in cells, called *in silico* experiments. These yield insights that can be tested through traditional *in vitro* (test tube) and *in vivo* (living cell) experiments.

#### EDUCATION SUMMARY

Secondary	Catholic Ladies' College, Eltham, VIC (Year 11 and 12 Mathematics)
Tertiary	<ul style="list-style-type: none"><li>Bachelor of Science (Mathematics)/Bachelor of Engineering (Electrical and Electronics), The University of Melbourne, VIC</li><li>PhD, The University of Melbourne, VIC</li></ul>

Lucia Santoso

## maths and the balance sheet analyst

“Mathematics is pivotal to understanding and analysing commercial risks in banking.”

Kari Stuart  
Balance Sheet Analyst  
Bank of Queensland, Brisbane, QLD

Balance is a central theme in Kari Stuart's life – both in her career as Balance Sheet Analyst for the Bank of Queensland and at home as a mother of two. Maths provides the skills she needs to analyse and report the effects of changes such as interest rate movements on the bank's assets and liabilities and, subsequently, its profitability. Maths also helps her interpret the impact of economic policies and government budget decisions on her own family's finances.

**EDUCATION SUMMARY**

Secondary	Redlands College, Wellington Point, QLD (Mathematics B and C)
Tertiary	<ul style="list-style-type: none"><li>Bachelor of Applied Science (Honours) in Mathematics, Queensland University of Technology, Brisbane, QLD</li></ul>



Kari Stuart

To find out more about where maths and stats can take you, visit our website [www.amsi.org.au/cr.php](http://www.amsi.org.au/cr.php)

# Game Design

Is this work or play?

A background in mathematics can blur the line between work and play. Take these jobs for example, opening up doors in both the real and virtual worlds!

## 3D Games Programmer (Generalist) [x2] and 3D Games Lead Programmer [x1]

Real Serious Games is seeking two experienced 3D Games Programmers and one Technical Lead 3D Games Programmer to join our expanding team in our Brisbane office in the Fortitude Valley area. If you are a top talent looking for an exciting real world project to challenge you, this is where you need to be.

### SKILLS – 3D Games Programmer (Generalist)

Mandatory

- Minimum of 3 years experience in either C++ or C#
- Excellent written and verbal communication skills
- Strong applied math, or 3D math skills. With understanding of Linear Algebra and Vector Calculus
- Eager and quick to learn new skills.

The applicant must have interest in learning or developing any of the following skills:

- Scripting for 3dsMax / Photoshop
- Programming for Unity 3D / XNA / Direct X, Managed Direct X
- Multi core and parallel programming

### SKILLS – 3D Games Technical Lead Programmer

Mandatory

- Minimum of 8 years experience in either C++ or C#
- Excellent written and verbal communication skills
- Strong applied math, or 3D math skills
- Previous Experience leading a team

The applicant will be expected to provide technical direction to a team undertaking

- Scripting for 3dsMax / Photoshop
- Programming in Unity 3D / XNA / Direct X and Managed Direct X environments
- Multi-core and parallel programming

### CONTACT

### DEADLINE

Thursday 13th May, 2010

## Mathematician - R&D (x 2)

- Sydney and ACT roles
- Financially rewarding
- Creative freedom

I have two roles for Mathematicians, both roles require a research focus, solid understanding of Matlab or Maple, strong interest in probabilities, statistics or game theory. Both are involved in the R&D of creating new products.

One of the roles requires a Masters or PHD level Mathematics Degree, a strong theoretical background. The others a Bachelors only. These roles offer both a creative component, freedom and flexibility in how you problem solve, strong analytical capability and a pivotal place in the company.

Generally speaking gaming mathematicians come up with new ideas for games, create mathematical models of game production, run various tests, and statistical analysis of games. Consult and work with the game design team to develop and complete game themes, are the think tank for generating new ideas. And they are the mathematics guru for game designer, engineer, sales, testing and compliance guys on all things mathematical.

Requirements:

- Bachelor's degree to PHD in Mathematics or equivalent experience; clear understanding of statistics, probabilities, game theory and skills in Matlab or Maple.
- Excellent communication skills
- Excellent analytical, problem solving skills.
- Australian Permanent Residency visa

If you wish to discuss this role further, forward your resume to

then call on

Please contact quoting reference number

Ph: 02 • Fax: 02

Email: Please click the 'Apply Now' button below.



# Game Design



## Senior Engine Programmer & Lead Gameplay Programmer

- Brisbane Based
- Well-Known creator of popular console game titles
- Benefits and Incentives

Maddison Recruitment Pty Ltd provides IT recruitment services, specialising in both permanent and contract positions.

Our client is a well-known creator of many popular console-game titles currently on the market, based in **Brisbane** and creates games for PC, PS3, Xbox and Wii. We currently have multiple programmer roles available, **1 as a Senior Engine Programmer and 1 Lead Gameplay Programmer**.

We are looking for a talented and motivated pool of individuals who are passionate about creating great games. Our Client believes in facilitating a collaborative team environment in order to create the best games.

In addition to our Clients commitment to creating quality games, there are a number of benefits associated with working for such a company. Some of these benefits include: **competitive salaries, high level private health insurance, relocation assistance, income protection and copies of every title they release.**

Candidates will preferably have experience with creating sports titles.

As **Senior Engine Programmer** your responsibilities will include:

- Development of the rendering engine system features and systems
- Working in team of talented individuals
- Being self-managed
- Produce high quality work

**Knowledge, Skills and Experience:**

- 5+ years of experience in the games industry
- Experience in the design and implementation of lighting/rendering/visibility models
- Expert knowledge of PlayStation 3, Xbox 360 or DirectX 3D graphics libraries
- Expert knowledge of performance optimization techniques
- Experience with multi-threaded techniques and architecture of consoles
- 3D math skills
- Demonstrated knowledge of software engineering practices
- Good communication skills
- Bachelor of Comp Science / IT / Engineering or equivalent

As **Lead Gameplay Programmer** you will:

- Develop and maintain game architecture
- Collaborate with designers and producers
- Lead a team of programmers

**Knowledge, Skills and Experience:**

Requirements:

- 6+ years of game coding experience
- Excellent communication skills
- Software Engineering/Computer Science/Mathematics or related Bachelor degree
- Experience of leading programming teams
- Previous experience designing gameplay systems
- Fluent C++ skills and knowledge of scripting language
- Strong mathematics, in particular 3D geometry

Please apply using the link below. Alternatively, please submit your resume and covering letter to quoting reference or for a confidential discussion, please contact on

<http://www.maddison.net.au>

Follow us on Twitter - <http://twitter.com/MaddisonRecruit>

# Health

## Of critical importance...

Current and future healthcare relies crucially on analysis of numerical data. From cancer research to infectious disease, the work is important and varied, and statistics plays a central role.



### Senior Biostatistician

- Global CRO
- Develop as a therapeutic expert
- Expand your skills - take on complex studies

My client is a global CRO well known for being pioneers in their field. They also have a unique understanding and appreciation for the importance of the Biostatistics function in the drug development process, meaning you will be supported in your role and rewarded with an exceptional benefits package. You will also be given the opportunity to develop as a therapeutic area expert in at least one area.

Responsible for interpreting analyses and writing the statistical section of study reports, you will also be required to:

- Develop and provide advice on clinical protocols
- Review CRFs and prepare analysis plans
- Liaise with clients and follow up on any statistical issues
- Manage project budgets and resource requirements
- Act as a mentor to junior members of the team and new staff members

The successful candidate will possess a PhD or Masters degree in Statistics or a related field with at least 3 years experience as a Biostatistician within a pharmaceutical company or CRO setting. An advanced knowledge of complex statistical methods related to clinical trials, project management skills, initiative and exceptional interpersonal skills are also key requirements for this role.

Make sure your career aspirations are on track for 2010. Contact Shireen for a confidential discussion.

To apply online, please click on the appropriate link below.  
Alternatively, please contact [redacted] on 02 [redacted] or email [redacted] quoting Ref No. [redacted].  
Please visit <http://www.pmpconnect.com> to view more jobs.

**CONTACT DETAILS**  
Email: [redacted]

**Sydney:**  
Address: Level 2, 101 Waterloo Road,  
North Ryde, NSW, 2113  
Telephone (02) [redacted]  
Fax (02) [redacted]

**Melbourne:**  
Address: Level 5, 410 Collins Street,  
Melbourne, VIC, 3000  
Telephone (03) [redacted]  
Fax (03) [redacted]

For further Employment Opportunities within the pharmaceutical, medical, healthcare, scientific and biotechnology sector go to: [www.pmpconnect.com](http://www.pmpconnect.com)



Medical & Scientific

## Biostatistician - Clinical Trials/Data Analysis - Pharmaceutical

- 12 Months Fixed Contract
- Multinational Giant - Great Salary And Conditions

### The Company

This International Pharmaceutical company is all about providing top quality prescription medicines all over the world for more than 100 years. They are renowned for high class medications for human health and similarly for their effective medications used on animals and livestock.

### The Position and Responsibilities

This is a newly created position reporting to the Team Leader of Statistical Sciences, with a key objective of assisting the team leader with the development of data analysis plans. The role requires an in-depth understanding of the methodology required for data analysis and the ability to develop accurate, efficient, user-friendly statistical programs for the purpose of analysis. This position is also responsible for effectively utilising current technologies and tools for conducting the clinical trial analysis, data integrity, continuous improvement of relevant processes and perform within regulatory compliance.

### The Candidate

You will be tertiary qualified with a degree in Statistics, Biostatistics or equivalent. You are highly motivated team person with excellent organisational and communication skills, with high proficiency in SAS programming language, data analysis and overall system expertise. Experience within similar field with knowledge of clinical trials process will be an advantage.

### Is it you??

This could be the position which makes a difference in your career so act quick and hit "APPLY NOW", or call Sunny on 02 [redacted] for a confidential discussion.

Email: Please click the "Apply Now" button below.

[WWW.HAHNHEALTHCARE.COM.AU](http://WWW.HAHNHEALTHCARE.COM.AU)

LEVEL 7, SUITE 1, 50 BERRY STREET  
NORTH SYDNEY NSW 2060  
PO BOX 321, NORTH SYDNEY NSW 2059

You must have the right to live and work in this location to apply for this job.

**APPLY**

Changing jobs? Change to a super fund with strong long term performance. Get a free report that compares funds. [australiansuper.com](http://australiansuper.com)

## Research Associate

12 month full time

The St Andrew's Medical Institute (SAMI) is an innovative health service research organisation, which is collaboratively clinician-led and Hospital-aligned with a clear scientific focus towards optimising patient outcomes.

The Medical Institute, together with St Andrew's War Memorial Hospital, hosts clinical practitioners determined to expand the international recognition for SAMI's approach to achieving world-class outcomes.

To support these aims, we are seeking an innovative and pragmatic biostatistician who will provide intellectual input into the methods being developed. The successful applicant will also contribute to the implementation and testing of these methods in collaboration with the academic partners and take a lead role in the Biostatistics Research Clinic.

This is a diverse role and there is strong potential that this project's term will be extended. Particular emphasis will be placed on devising, testing and integrating mechanisms to optimise data quality and feedback processes for clinicians.

The St Andrew's Medical Institute is situated on the edge of Brisbane's CBD in St Andrew's War Memorial Hospital. More information is available at [sami.org.au](http://sami.org.au)

### Selection Criteria:

While it is desirable that applicants have some experience in the analysis of biostatistical data including the development/implementation of control charts and related process monitoring tools or Bayesian Networks, the following attributes are essential:

1. Completed a postgraduate qualification (high level Honours, Masters or PhD) in statistics or closely related discipline.
  2. Demonstrated skills in statistical computing, programming and the use of statistical software.
  3. Demonstrated ability to provide biostatistical support.
  4. Demonstrated ability to work collaboratively in research teams.
  5. Proven ability to work independently with minimal supervision.
  6. Demonstrated excellent written communication skills to prepare material for scholarly and other publications.
  7. Demonstrated excellent oral communication skills to liaise with academic partners and present research findings to internal and external audiences.
  8. Leadership skills.
- Applications must specifically address the Selection Criteria, specify the extent of their availability and be accompanied by a CV to be considered.
  - Candidates whose availability is limited to a substantial part-time position are encouraged to apply.

A salary package will be negotiated to reflect the successful applicant's experience.

Applications should be submitted immediately by email to

## PRINCIPAL BIOSTATISTICIAN

### Reference Number:

**Department:** Centre for Biostatistics & Clinical Trials

**Job Terms:** Full time

**Location:** East Melbourne

**Peter Mac Offers:** As Australia's foremost Cancer Centre, the Peter MacCallum Cancer Centre provides high quality treatment and support to cancer patients, their families and carers. Peter Mac is an internationally renowned organisation with its main campus in East Melbourne and satellite services at Box Hill, Moorabbin, Bendigo and Richmond. Peter Mac offers its employees the following benefits:  
 • Salary Packaging/ADOs • Employee Assistance Program • Central City Location • Training and Development Program

**Job Description:** The Centre for Biostatistics and Clinical Trials (BaCT) at the Peter MacCallum Cancer Centre is seeking a full-time Principal Biostatistician with a very strong statistical leadership, project management and research track record. The successful applicant will lead a dedicated team of biostatisticians involved in design, analysis and reporting of cancer clinical trials and other clinical research projects. BaCT provides a unique and exciting opportunity for an experienced biostatistician interested in cancer research to be at the forefront of cancer treatment, research and education. For information about the department, see <http://www.petermac.org/CentreforBiostatisticsandClinicalTrials>. Offers of employment will be subject to the candidates providing a satisfactory National Police Certificate (police check) or the equivalent. You may also be required to obtain a Working with Children check when applying for a position at Peter Mac.

**Apply to:** Enquiries and written applications (including the names of two referees and a statement addressing selection criteria with a curriculum vitae) to: Dr. [redacted], Director, Centre for Biostatistics & Clinical Trials, Peter MacCallum Cancer Centre, Locked Bag 1, A'Beckett Street, Melbourne Vic 8006, phone: +61 3 [redacted] or email:

**Closing Date:** 27/11/2009

<< Back to Job Ads

Position descriptions available at [www.petermac.org/](http://www.petermac.org/)  
 Written applications:  
 Peter MacCallum Cancer Centre, Locked Bag 1, A'Beckett Street, Melbourne VIC 8006



# Market Research

*Another satisfied customer!*

How do companies keep their customers satisfied? How do they know when they are about to lose your business and then entice you all over again? A crystal ball? No, market researchers that's how! Market researchers interpret customer records and spending habits in an effort to provide their company with an edge over the competition. Maths and stats grads are trained to be numerically savvy and are therefore highly suited to interpreting customer data.

**Bluefin Resources**  
Market Research Recruitment Solutions

## Statistician - Market Research

- Highly statistical candidate required.
- Develop your modeling skills.
- Marketing insights.

This is an amazing opportunity for a commercially savvy statistician to join a leading Market Research firm and provide higher level analytical modeling to the Quantitative Research Managers.

As an organisation they are constantly looking at new analytical techniques to help their FMCG clients understand how statistical models (choice, propensity, segmentations) can drive their marketing strategies.

The role will provide an opportunity for a statistician with a passion for marketing with 2 or more years relevant commercial experience to join this team and further develop both their technical ability. More importantly working for an agency that provides marketing strategy will allow the candidate to also develop their ability to interpret data and provide insight.

To apply you need to be familiar with one or more of the following techniques:

- Choice modeling
- Conjoint analysis
- Density maps
- Decision hierarchies
- Segmentations (attitudinal and needs)
- Mixed market models
- Discriminate analysis

For more information you can contact [REDACTED] at Bluefin Resources on (02) [REDACTED] quoting job reference number [REDACTED] or alternatively, apply online below.

## Performance Reporting Analyst; Customer, Marketing Portfolio Analytics

Develop innovative performance matrix, insights and reports for Senior management and C level decision making

- Major Service Corporate
- Great data accessibility
- Relocation Assistance and Sponsorship available

This role sits within a pivotal team that helps drive the commercial decision making across projects to do with new product development, marketing campaigns (Go or No Go decision). It looks at the major drivers of customer losses or customer wins and also provides high level reporting to middle management up to C level across a range of product portfolios.

For the right person, there is potential to have high visibility across senior levels within this major corporate, as a number of this team's projects are sanctioned from C level.

The work being done internally by this team is considered to be pioneering work, so there should be plenty of opportunity for stretch and challenge in this role.

### Role Responsibilities:

- Develop customer performance and management reporting for key customer segments within the OGSM (Objectives, Goals, Strategies and Measures) framework for each Line of Business
- Develop and maintain scorecard/s to measure and benchmark performance
- Ongoing delivery of balanced scorecard/s on customer performance and projects. This will be used for, portfolio reporting analysis and portfolio management purposes
- Convert data and numbers into readily understood communication that can be used in communication and information packs for stakeholders.
- Educate and coach the business in the use of customer reporting to drive business decisions
- Develop BU Business requirements/needs and drive business case development to invest in customer reporting capabilities
- Identify of opportunities and threats affecting the customer base by analyzing the outcomes of customer reporting and analysis
- Analyse and report on high level Customer Behavioral Changes affecting the Groups customer base

### Ideal Skills:

- Tertiary qualifications in a quantitative discipline such as Statistics, Maths, Actuarial and/or Marketing (with an analytical major), Accounting
- Minimum 3 + years experience in reporting or analytical role for example management reporting, actuarial related, customer insights , campaign analytics (but wanting to broaden out), sales analysis reporting
- Ability to translate data and information into insights for business decision making
- SAS and SQL attractive purposes

Rymer Executive Search places Analytical Professionals in a range of specialist analytical roles such as predictive marketing, data mining, customer analytics, predictive modelling, database marketing analysis, statistics, pricing analysis, actuarial analysis, fraud analysis, credit risk analysis, portfolio analysis, choice modelling, market analysis and competitor intelligence. Our client base extends from blue chip "house hold name" corporates in a variety of sectors to innovative, cutting edge analytical consultancies.

Want to plan the next career move? Please email your resume as an MSWord.doc version to Rymer Executive Search

Please contact Rymer Executive Search Pty Ltd on 1300 [REDACTED] to discuss this role or similar ones based in Australia  
Email: Please click the Apply Now button below quoting Ref No: [REDACTED] in the subject line

# Market Research



## Market Research Analyst

- Full time role with potential part time opportunities
- Opportunity to work with experienced researchers and analysts

World Vision is Australia's largest overseas aid and humanitarian organisation. As well as providing relief in emergency situations, we work on long-term development projects with local communities to address the causes of poverty and help them become self-sufficient. Our mission is to engage Australians in the effort to eliminate poverty and its causes.

This is a consultative insights driven role where you will be responsible for creating market based intelligence to drive communication, segment and product strategies. You will be involved in designing research, questionnaire design, programming and fieldwork, interpretation of data and managing external research projects. You will profile, track and analyse supporter activity to discover behavioural patterns. Through the use of statistically robust methods of data analysis and concise reporting you will champion a culture of evidence based decision making.

As the ideal candidate you will have:

- Tertiary qualifications in Marketing, Statistics or Social Sciences
- Knowledge of research and analytical methodologies
- Excellent communication skills with proven ability to communicate complex concepts to a non-technical audience
- SPSS experience

A full Position Description is attached below.

To express your interest in this role please send a resume, with a covering letter addressing these criteria, to [REDACTED] at [REDACTED]

World Vision Australia has created a culture that is inspired by our core values and our work. To find out more go to [www.worldvision.com.au](http://www.worldvision.com.au).

Applications close Friday 5th February 2010

Email: Please click the 'Apply Now' button below.

World Vision of Australia is a Christian organisation pursuing freedom, justice, peace and opportunity for everyone in the world.

# Market research

**MI Team**

## Customer Analytics Analyst – Direct Mail Focus

- Australian Owned Publicly Listed Organisation
- Corporate Head Office – Inner Southern Location
- To 80K + Share Options + Parking

Our client has established themselves as a true national market leader, boasting a highly recognised and respected Australian-owned brand. They attribute their success to their clear strategic planning initiatives and their people. In turn, they offer a dynamic and cohesive work environment that is result driven and focused on reaching company goals collectively.

Reporting directly to the Customer Analytics Manager, and working closely with the Direct Marketing campaigns team, you will enjoy utilising your statistics, data management, analytical and campaign management knowledge and skills to;

- Create, implement & manage campaigns
- Collect data & analyse customer data from SAP, identifying trends & triggers
- Conduct full post campaign analysis and reporting against targets
- Carry out extensive data mining and manipulation functions
- Develop propensity models

To deliver the requirements of the role you must possess;

- Previous campaign management experience
- A genuine interest in statistics, analytics and data management
- Possess tertiary qualifications in either a maths, statistics, science or related discipline
- Have good working knowledge of SAS & strong MS Office Suite applications (knowledge of SAP will be highly regarded)

In return, you will be rewarded by being an integral part of the Customer Analytics team within a Company who has clearly defined marketing strategies and direction. This is a fabulous opportunity to take your current skills and knowledge to the next level – endless scope and career development opportunities will be made available to a top performer.

*Well supported and resourced, this division has catapulted the brand into the consumer psyche, and now dominates its space in the market. Be a part of the success story!*

To apply please call Broekhoven on ( ) or email your fully updated resume (Word format only, not PDF & please do not 'Password Protect' your document) by selecting the 'apply now' button below.

[www.miteam.com.au/](http://www.miteam.com.au/)

Email: Please click the 'Apply Now' button below



## Market Research Analyst

**forethought**  
RESEARCH  
THE SCIENCE OF MARKETING

### The Company

Forethought is an award winning marketing consultancy underpinned by a significant marketing research focus. Forethought specialises in acquisition, retention, brand and communications research, partnering with top-tier Australian iconic brands to develop and mentor commercially effective market strategies.

### THE ROLE

Opportunities for an experienced permanent full time Analyst exist within our Marketing Science team.

As a Marketing Science Analyst with Forethought, the work you will be involved in include:

- Analysis of client data - including statistical techniques such as logistic regression and multivariate analysis
- Providing quality, rigorous accurate analytical services to internal consulting teams
- Interpreting analysis findings and relating them in a clear & concise manner
- Contributing to draft reports and presentations for clients
- Identifying value add recommendations using our tools & methodologies

You will also have the opportunity to train and mentor other analysts.

### THE REQUIREMENTS

The successful candidate will demonstrate an outstanding academic record, preferably with Honours or post graduate qualifications in Marketing, Science, Engineering, Mathematics, Economics, Statistics or Psychology. A PhD would be an advantage.

The successful candidates will have:

- Demonstrated ability to think analytically
- Exposure to research projects
- Ability to plan projects and work to deadlines
- Demonstrated ability to work with models and statistics. (knowledge of choice modelling would be an advantage)
- Strong ability to use SPSS or other statistical packages
- Strong customer service attitude
- Willingness to do what it takes to get the job done
- Well developed written and verbal communication skills
- Previous commercial experience within a research capacity
- Ability to lead and train less experienced members of the Marketing Science and Consulting teams

### THE REWARDS

In addition to an attractive salary package, you will be contributing to a brilliant team of strategic researchers. Long term career options could include Leadership, Innovation or Consulting opportunities.

### APPLICATIONS

Please forward your resume and a letter stating "why you would be interested in a role in marketing research" to: [redacted] or for further information please contact [redacted] on (03) [redacted]

Email: Please click the 'Apply Now' button below.



**Roy Morgan**  
Research

## Customised Research - Project Manager

- Great CBD Location
- Fantastic Career Development Opportunities
- Integral Role in Well Established Team

Roy Morgan Research is the largest Australian owned and longest established Market Research Company in Australia. Our client base continues to expand both in Australia and overseas.

An exciting opportunity has become available within the Sydney CBD office for a researcher to join our important Customised Research Department. This team is focussed on designing research to meet the needs of our clients, whether they be for qualitative, quantitative, social or commercial research.

You will be primarily responsible for managing research projects allocated to you. Your responsibilities will include designing research, writing research proposals, managing projects through questionnaire design, programming and fieldwork, client liaison, interpretation of data and report writing.

This role requires you to be involved in a diverse range of projects for high profile companies and government agencies across a wide range of industry sectors. Previous quantitative research experience is desirable.

**To succeed in this role you will have:**

- Ideally, a minimum of 2 years experience within the market and/or social research field
- Relevant degree qualification in the social sciences, marketing, statistics, economics, etc.
- Demonstrated ability to analyse and present information confidently, intelligently and creatively
- Demonstrated ability to liaise with clients and other departments to ensure that projects run smoothly and to deadline.
- Excellent time management, organisational and communications skills

If you are a driven individual who fits the above criteria, and are looking for a fulfilling career opportunity, then please forward your resume and expression of interest to [redacted]

*Discover your sage*

# Meteorology

Does it look like rain?

As everyone knows, the weather is hard to predict! The modelling of ocean currents, weather patterns and climate change is all about mathematics; it is important to a range of industries - from fishing, shipping and farming to air traffic control. And it even affects the everyday person deciding on what to wear!

Australian Government  
Bureau of Meteorology

## A new *outlook* for your career

### Space Weather Scientists

Several positions available for Scientists, Engineers and Programmers

The Bureau of Meteorology is seeking to engage a number of science / mathematics / engineering / programming professionals to develop, evaluate and implement space weather products and hardware. Tasks will include analysis of solar-terrestrial data including geomagnetic, GPS and SuperDARN observations; upgrade of space weather monitoring equipment; and programming of hardware. The successful candidates will be able to demonstrate their skills with reference to these or allied areas of interest.

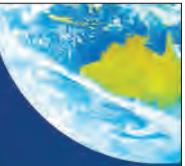
Selection documentation can be obtained from [www.bom.gov.au/careers](http://www.bom.gov.au/careers) or by emailing IPS Several Positions.

Further information about the position can be obtained from (02) or (02).

Applications, addressing the selection criteria in the selection documentation, should be forwarded to Recruitment, IPS, PO Box 1386, Haymarket, NSW 1240 or by close of business Thursday, 28 January 2010.

[www.bom.gov.au/careers](http://www.bom.gov.au/careers)

Australian Government  
Bureau of Meteorology



## A new *outlook* for your career

### Graduate Meteorologist

- 10 month training program to become a weather forecaster
- Obtain an accredited Graduate Diploma in Meteorology
- Build a rewarding career with excellent career progression

#### WANT A FANTASTIC CAREER AS A WEATHER FORECASTER?

Gathering weather data on a tiny island; urgently preparing cyclone warnings; researching climate change – these are just some of the fascinating occupations open to you at the Bureau of Meteorology when you complete a graduate meteorology program with us.

#### About our Graduate Meteorology Program

Our Graduate Meteorology program comprises a 10 month specialised training program conducted in Melbourne.

Our meteorology training course is highly regarded and upon completing the training, you will be awarded a Graduate Diploma in Meteorology and transfer to one of our Forecasting Centres located in capital cities across Australia to work as a weather forecaster. You could even end up specialising in some fascinating fields such as severe weather, tropical meteorology, thunderstorms, aviation and climatology to name a few.

#### Our Benefits

Look forward to a salary of \$46,092 whilst training, an advance in salary when you successfully complete your training, and comprehensive relocation assistance if you need to relocate to Melbourne for training, or to transfer to your posting location after training.

We offer a stimulating and innovative training environment and you'll join a great team people who love what they do. Don't miss this chance to join the Bureau and make the most of your career.

#### Eligibility

You need a Bachelor degree or higher, majoring in a physical science, meteorology or mathematics, with maths and physics to second-year university level.

Graduates about to complete their degree are welcome to apply.

Applicants must have citizenship or be a permanent resident.

#### Application Details

Applications must be lodged online through our careers website [www.bom.gov.au/careers/](http://www.bom.gov.au/careers/)

When applying online, applicants will need to upload a CV, scanned copies of academic transcripts and submit a response to the selection criteria.

#### Further Information

To find out more about our Graduate Meteorology positions, view the selection criteria and apply online visit the Graduate Meteorology vacancy on our website.

Applications close Wednesday 16 June 2010  
Late or incomplete applications cannot be considered.

#### Questions?

Contact our Recruitment Unit Tel: (03) or email

[www.bom.gov.au/careers](http://www.bom.gov.au/careers)

# Mining

## Ground breaking work!

Mining is of critical importance to the Australian economy. Mathematicians and statisticians assist in making decisions that have an impact on Australia's future...



**bhpbilliton**  
resourcing the future



## THINK AHEAD

### Entry Level Scientist - Mathematics / Physics / Geoscience or Engineering Quali

#### Australia - Western Australia

BHP Billiton is the world's largest diversified resources company and is an industry leader in the supply of iron ore to the global steel industry from our Western Australian Iron Ore operations. With seven mines, two ports and processing facilities and an award winning 1000+km rail system, BHP Billiton Iron Ore is more than equipped to meet the demands of the global iron ore market. We are expanding every facet of our Iron Ore business as we develop new ways to deliver competitive advantages to our customers. Our most recent growth project, Rapid Growth Project 5, will take installed capacity at our Western Australian Iron Ore operations to 205mpta by the second half of calendar year 2011.

Is your Slashdot number less than six figures?

What about your Erdős number?

Have you recompiled your mobile phone kernel just for comical value?

Does your code give you "the power to crush those who oppose you"?

**Position Synopsis**

An opportunity exists for an early career scientist with a demonstrated ability to communicate technical solutions to non-technical people. In this unique position, you will take your initiative and drive to contribute across a broad range of resource modelling and planning activities within our WA operations. You will be passionate about fitting complex systems together to work seamlessly, in a wide variety of areas, such as; GIS, CAD, Engineering, Geology and Metallurgy.

Working in a team environment, the successful candidate will contribute to ideas generation, systems development. This will include deployment of advanced data storage systems, analysis, manipulation and data integration solutions and computational tools for mineral resource assessment. The successful candidate will also contribute to emerging technologies & discontinuities identification in related areas which have the potential to impact present and future business.

**Skills and Experience**

Applicants will hold a Degree or equivalent experience in Mathematics, Physics, Geoscience or Engineering. Familiarity with programming languages both high and low level, both interpreted and compiled. Ideally, you will have exposure to database concepts and systems. Your training will have included multiple data streams integration, numerical techniques and large scale computational solutions.

Technical strengths will be complemented by strong self-organization skills, an ability to operate in flexible team-based environments, and a proactive approach to managing the health, safety and environmental aspects of the work.

To submit your application click on the 'Apply' button below before Friday 7th May 2010.

We reserve the right to commence recruitment proceedings prior to the stated closing date.

BHP Billiton Iron Ore is an Equal Opportunity Employer and encourages Aboriginal & Torres Strait Islander people to apply.

Please click the 'Apply Now' button below.  
**BHP Billiton has an overriding commitment to safety and environmental responsibility.**

# Modelling

Engineering? Mining? Meteorology? Finance?  
Communications networks?

The common thread here is the use of mathematical models to predict and forecast. Modelling is a fundamental tool used in industry and a skill in demand. The employment opportunities range across the spectrum.



## Senior SAS Basel II Modeller/Analyst x2, Melbourne VIC

My client is one of the most impressive organisations in the APAC region. With continued growth & an exciting raft of new challenges facing them in this new financial year they are looking to increase the capabilities of their Analysis & Modelling teams. Because of this they are now looking to hire 2 Senior SAS Credit Risk Modellers/Analysts.

These are high profile roles, located within the Retail Credit Risk function of my client & I am looking for a candidates capable of assuming a Senior position within the business. This role will be looking at a wide range of Credit Scoring Models well as other assessment tools and you will be responsible for their development & maintenance in addition to looking at their usage within the wider context of Credit Risk strategies. You will also be heavily involved in Capital Modelling/Basel II projects looking at PD, EAD, LGD etc models across the entire credit lifecycle and across retail banking portfolios. As well as being a strong Credit Risk Modeller & Analyst you will require strong Project Management skills as you will be required to deliver new process or methodology changes across the portfolios so a good knowledge of portfolio management would also be useful. As a senior you will be expected to be a technical & thought leader & mentor & influence junior team members.

This is a true end to end Credit Risk role. You will be involved right from project scope definition onwards & be involved in the design & development of Analytical solutions so good project management skills are key as you will need to manage expectations, stakeholders & ensure you deliver. In terms of Statistical Models you will build ones for usage right across the Credit Life-cycle & also be involved in the development & maintenance of Application & behavioural Scorecards. On a strategic level you will influence Credit Risk Strategy, lending strategies etc. You will be required to engage & build strong relationships with managers across a wide range of business areas & across multi functional/disciplinary teams.

Successful applicants should have a strong academic background with good Numerical/Statistical academics (eg Mathematics, Statistics, Operations Research), ideal candidates will have strong Credit Risk backgrounds with past experience in building Credit Risk Models, Scorecards & have portfolio management experience. However, candidates with extremely strong Analytical/Modelling backgrounds from a non-Credit Risk background will be considered (eg Insurance, Financial Services Marketing etc). On a technical level I am looking for proven, solid (ie day in day out) experience programming with SAS (Base SAS). Candidates without SAS will be considered but you must have very strong programming skills in another language. Candidates without SAS and/or Credit Risk experience will need to be more flexible than usual in terms of salary expectations.

In return you will be working on large scale, high profile projects & be working end to end on Credit risk projects. With a well defined path into Management available to candidates (in addition to other internal opportunities) this role will provide talented & ambitious Analyst's/Modellers with the stepping stones to take their careers to the next level. With a supportive peer network, excellent leadership & a first class working environment this really is a place designed to help you excel. My client offers superb training & development to its staff & has a superb reputation in its industry. If you are a first class Analyst/Modeller who is regarded as one of the best then this is the role for you. Superb prospects, great location, outstanding projects and work content. Interested candidates should apply ASAP with an up to date CV (Word Format) or call (02) for a confidential discussion.

Email: Please click the 'Apply Now' button below

Your career in the aviation industry takes off **here**

airspace | airside | AIRSERVICES AUSTRALIA

## Safety Analyst and Researcher - ASA5

- Great opportunity in the aviation industry
- We have the training and development opportunity that you are looking for!
- ASA 5 \$63,550 - \$69,879 + 12.5% super

We are a government-owned corporation providing safe and environmentally sound air traffic management and related airside services to the aviation industry. In a region covering 11 per cent of the world's surface, we manage air traffic operations for around 63 million passengers on more than 4 million domestic and international flights every year.

The Safety Systems, Risk and Analysis Branch is looking for a Safety Analyst and Researcher to provide support to the Quantitative Modelling Manager in quantitative risk analysis, and reporting of safety and environment data within Airservices Australia.

Working closely with the Senior Analyst and Researcher the successful applicant will:

- Provide direct support to airspace and environmental modelling projects and airport capacity studies in conjunction with fast time simulation applications.
- Analyse incident and other reports relating to Airservices Australia safety related operations using trend indicators and statistical methodologies to provide insight and a breakdown of major factors.
- Undertake ad hoc queries of Safety and Environment Group databases for internal and external clients.
- Assist with computations for the development of new aircraft separation standards.

To be successful in this role you will have high level written and oral communications skills and demonstrated experience in undertaking technical research, developing solutions and preparing quality reports on schedule and within budget.

To be considered for this position you must have tertiary qualifications or equivalent experience in computer programming, mathematics or physics, and be computer literate, for example through knowledge of a programming language or a demonstrated ability with technical software.

To apply for this position please lodge an application online via our website: <http://www.airservicesaustralia.com/careers>

Further information can be sought by clicking on the position description link or contacting on 02 or

[Updated\\_Analyst\\_and\\_Researcher\\_PositionD\\_1APR2010\[1\].doc](#)

**Applications close 11.00pm Sunday 16<sup>th</sup> of May, 2010.**

Airservices Australia is a government-owned body corporate providing the aviation industry with services such as air traffic control, navigation facilities and aviation rescue and fire fighting.

Airservices Australia values social and cultural diversity and is committed to the principles of equal employment opportunity and the provision of a safe and healthy work environment.

*In the interests of safety, we test for alcohol and other drugs.*

Email: Please click the 'Apply Now' button below.

Airservices Australia values social and cultural diversity and is committed to the principles of equal employment opportunity and the provision of a safe and healthy work environment.

*In the interests of safety, we test for alcohol and other drugs.*

Airservices Australia is a government-owned body corporation providing the aviation industry with services such as air traffic control, navigation facilities and aviation rescue and fire fighting.

[www.airservicesaustralia.com/employment](http://www.airservicesaustralia.com/employment)

AIRSERVICES AUSTRALIA



# Modelling



Career Opportunities

www.csiro.au

## Postdoctoral Fellow in Agro-ecological Modelling

80 years: Australian science, Australia's future



development

YouTube 0:00 / 3:52

- Undertake meaningful & applied environmental research
- In Australia's premier science & technology research organisation
- Offering outstanding career development and professional support

CSIRO Sustainable Ecosystems is offering a postdoctoral fellowship in agro-ecological modelling to be based in Perth at the Centre for Environment and Life Sciences (CELS).

Who we are

The Commonwealth Scientific and Industrial Research Organisation (CSIRO) is Australia's national science agency and one of the largest and most diverse research agencies in the world.

At CSIRO Sustainable Ecosystems we undertake research and development across a range of landscapes - targeting the challenges of social, economic and environmental sustainability.

The Position

**Location:** Perth WA  
**Salary:** \$73k - \$80k pa + super  
**Tenure:** 3-years, full-time  
**Reference Number:**

The Postdoctoral Fellow will identify, develop and quantitative ecological approaches to agricultural production such as spatial variation.

\$80k pa + super  
Tenure: 3-years, full-time  
Reference Number:

The Postdoctoral Fellow will identify, develop and adapt novel quantitative ecological approaches to analysing issues in agricultural production systems, such as population dynamics and spatial variation in weeds, pests and diseases.

As part of the Farming and Forestry Systems Group, you will develop and apply coupled models and conduct field investigations to refine and test these approaches. Effective interaction with agricultural and ecological scientists within the group will be essential and you will be expected to publish your findings in quality scientific journals.

**Key responsibilities of this position will include:**

- The development of innovative concepts, theories, models and techniques for analysing ecologically-orientated problems in agricultural production systems;
- Demonstrating the utility of ecologically-based modelling approaches to solving agricultural problems;
- Conducting field research and interacting with senior scientists to identify research opportunities and applications for any research.

**To be successful in this role, you will need to have:**

- a PhD (or be close to submitting a PhD) in ecology, agriculture, forestry, mathematics or statistics;
- an ability to conceptualise, code, run and evaluate mathematical models of ecological processes;
- an ability to interact with collaborating scientists; and
- strong written communication skills, including demonstrated record of publishing in journals.

**In return you will be rewarded with:**

- Working for a leading government organisation engaged in world class scientific research.
- The chance to undertake a formal program designed to develop your capabilities and experience to perform effectively as an independent researcher.
- Flexible working arrangements, enhanced leave entitlements & a great work life balance.
- Up to 15.4% Superannuation and options for salary sacrificing.

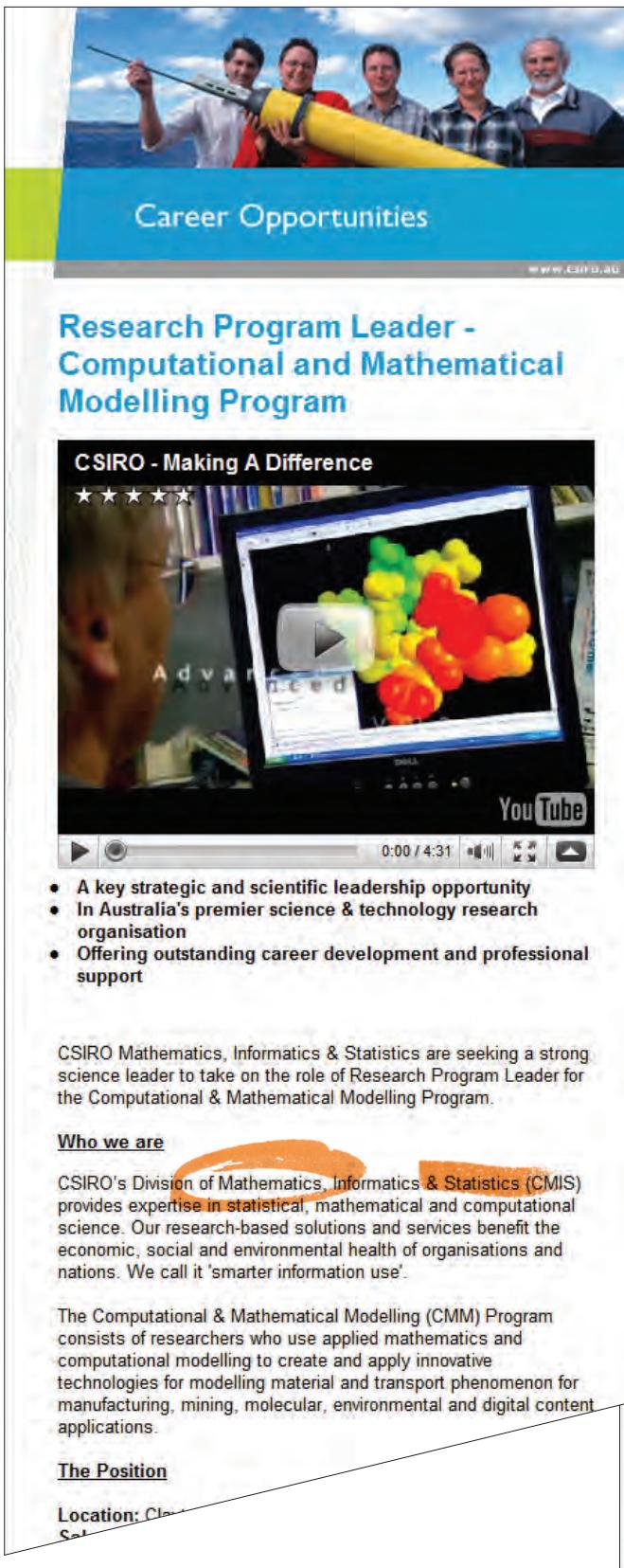
**Applications close 2 March 2010.**

Apply now by visiting our website: [CSIRO CAREERS](#)



For selection documentation  
and details on how to apply  
[visit \[www.csiro.au/careers\]\(#\)](#)

# Modelling



Career Opportunities

## Research Program Leader - Computational and Mathematical Modelling Program

### CSIRO - Making A Difference



- A key strategic and scientific leadership opportunity
- In Australia's premier science & technology research organisation
- Offering outstanding career development and professional support

CSIRO Mathematics, Informatics & Statistics are seeking a strong science leader to take on the role of Research Program Leader for the Computational & Mathematical Modelling Program.

Who we are

CSIRO's Division of Mathematics, Informatics & Statistics (CMIS) provides expertise in statistical, mathematical and computational science. Our research-based solutions and services benefit the economic, social and environmental health of organisations and nations. We call it 'smarter information use'.

The Computational & Mathematical Modelling (CMM) Program consists of researchers who use applied mathematics and computational modelling to create and apply innovative technologies for modelling material and transport phenomenon for manufacturing, mining, molecular, environmental and digital content applications.

The Position

Location: Clayton, Melbourne VIC

'smarter information use' services benefit the health of organisations and nations'

The Computational & Mathematical Modelling (CMM) Program consists of researchers who use applied mathematics and computational modelling to create and apply innovative technologies for modelling material and transport phenomenon for manufacturing, mining, molecular, environmental and digital content applications.

The Position

**Location:** Clayton, Melbourne VIC  
**Salary:** Attractive remuneration to be negotiated  
**Tenure:** Full-time, Indefinite  
**Reference Number:**

**The successful candidate will:**

- Provide strategic and scientific leadership for a team of approximately 30 mathematical and computational scientists.
- Work with the Business Unit Executive and the Group Leaders within the Program to develop and maintain a strategic vision.
- Plan, develop and assign research capability in the mathematical sciences into a variety of Themes in Flagships and other Portfolios of CSIRO, with a focus on solving major national challenges through the application of mathematical methods.

**To be successful in this role, you will need:**

- Tertiary qualifications in a relevant scientific discipline combined with relevant experience;
- Strong leadership and motivational skills;
- Excellent people management skills;
- Strong negotiation and relationship management skills;
- Strong commitment to team-based processes and outcomes;
- Strong collaborative research skills, and
- Commitment to assisting others to achieve their goals.

**In return you will be rewarded with:**

- Working for a leading government organisation engaged in world class scientific research.
- Excellent career development and ongoing professional support.
- Networking opportunities working amongst leading, innovative researchers.
- Flexible working arrangements, enhanced leave entitlements & a great work life balance.
- Up to 15.4% Superannuation.

**Applications close 5 February 2010.**

Apply now by visiting our website: [CSIRO CAREERS](http://www.csiro.au/careers)

For selection documentation and details of how to apply visit [www.csiro.au/careers](http://www.csiro.au/careers)

# Operations Research

## What is it?

Operations research is all about the optimisation of scheduling, manufacturing, pricing and so on. It is a critical part of business and government planning.

**Simulation Consultant / Operations Research Professionals**

- Major Australian and International Blue Chip Clients
- Complex Simulation / Optimisation Modelling & Data Analysis
- Offices in Perth and Melbourne

TSG Consulting is a specialist consulting firm working exclusively with blue chip Australian and International mining, processing and infrastructure clients. TSG is dedicated to adding value to their client's operations by using the latest operations research, modelling and analytical techniques.

Due to continued growth and success within their field, TSG is now recruiting for their Perth and Melbourne Offices. You will be working with a team of consulting professionals who share a high level of enthusiasm, drive and professional integrity.

The opportunities that would exist within TSG involve:

- The application of Operations Research techniques in the mining, logistics and transportation sectors.
- All aspects of the consulting process from problem definition and solution through to client presentations.
- Delivering solutions to our clients' expectations and beyond.
- Developing simulation models to simulate real-world systems.

Selection Criteria Includes:

- Understanding of discrete event simulation.
- Confident presentation skills.
- Excellent conceptual skills and the aptitude and ability to logically examine projects.
- Sound programming capability.
- Experience in simulation packages will be looked upon favourably.
- Tertiary qualifications in Engineering, Maths / Stats, Science or Operations Research (possibly having achieved PhD status).

TSG Consulting offers their team a top class working environment, ongoing mentoring, participation in industry leading projects, significant career progression opportunities and competitive remuneration and bonuses.

For a confidential enquiry please call Director – Operations on (08) . Detailed written applications should be forwarded to

No Agencies Please

## Transport Data and GIS Analyst

\$70,929 per annum starting salary plus superannuation

This is a unique opportunity for a highly motivated professional to join our City Strategy team to integrate and analyse transport and land use data and create information to support the development of transport strategy and policy, and the reporting of performance against targets.

Working closely with the Transport Policy Implementation Manager you will create an integrated transport data and information repository, with associated GIS imaging in an on-line web based format.

To be successful in this role you will hold tertiary qualifications and / or have significant experience in statistics, economics, engineering or similar degree with a quantitative basis. Demonstrated experience in the creation, management and analysis of data sets in a transport, traffic, roads, land-use or planning context as well as the use of GIS to display complex geo-spatial data is also essential.

Visit [www.cityofsydney.nsw.gov.au/jobs](http://www.cityofsydney.nsw.gov.au/jobs) for a position description. For further enquiries contact , Manager Transport Strategy on (02)

or via email

Applications should be framed around the selection criteria, include the names and telephone numbers of two referees and be made online via our website by Wednesday 12 May 2010, quoting the job title and Ref. No.

Email: Please click the 'Apply Now' button below.

**WWW.CITYOFSYDNEY.NSW.GOV.AU**



## STATISTICIAN – AUSTRALIAN MATHEMATICAL SCIENCES INSTITUTE (AMSI)

Position no.: Employment type: Full time Fixed Term Campus: Parkville

Australian Mathematical Sciences Institute

Department of Mathematics and Statistics

Faculty of Science

Salary: \$90,480 – \$104,329 p.a. plus employer superannuation contributions of 17%

The continued growth in the Australian Mathematical Sciences Institutes (AMSI) activities has identified the need to add a full-time, highly skilled statistician to its team. Reporting to the AMSI Director, the AMSI Statistician will provide advice on the statistical aspects of a range of AMSI projects; undertake specific project work of a statistical nature for clients identified by AMSI, and will identify and develop new consulting opportunities.

You will support AMSI's collaboration with Parks Victoria and the incumbent will work 50% on Parks Victoria projects. He/she will also assist in the reviewing of Industry Internship applications and progress of interns as required.

To be appointed to this position applicants must possess a PhD in statistics or equivalent, with relevant work related experience in providing statistical support to senior personnel in government and business.

**Close date:** 2 Jun 2010

**Position Description & Selection Criteria**



**Date advertised:**

14 May 2010 Aus. Eastern Standard Time

Applications closed for this job on 2 Jun 2010

To find out what's new at The University of Melbourne:  
<http://www.unimelb.edu.au> <http://growingteam.unimelb.edu.au>

### How to Apply

Your application should address the selection criteria. To obtain the position description and selection criteria for this role, please click on the link above. If you are interested in being considered for this role, please apply below.



THE UNIVERSITY OF MELBOURNE

**dream large**

www.unimelb.edu.au

# Statistics

## In demand!

Statisticians are very much in demand. There are jobs already listed in just about every category of this booklet and the ads on this page show many other opportunities.

Statistics even has its own government agency: the Australian Bureau of Statistics. The ABS provides statistics on economic and social matters for use by state and federal governments and by the community. It employs over 3000 staff around Australia.

### Oil, Gas & Mining Recruitment Specialists

#### Statistician

##### The Client:

A large well established EPCM Joint Venture Project located in Western Australia's Pilbara Region. Our client is looking for a Statistician to work from their Perth office. This is a long term contract position and will require the successful candidate to start as soon as possible.

##### Role:

Reporting to the Programme Health, Safety and Security Manager, the Statisticians for HS&S department should be capable of determining and setting the structure and process for the collection, analysis, interpretation and presentation of quantitative information to establish reliable metrics for the HS&S department.

##### Experience, Skills & Qualifications:

A degree with a quantitative component, such as:

- Statistics
- Mathematics
- Economics
- Operational research
- Business-related subjects

Strong analytical and IT skills are essential, as are interpersonal, communication, and presentation skills to share findings with colleagues and clients.

Knowledge of following software is required to expert level:

- Microsoft Excel including macro development and statistical and database functions and charting, as well as Pivot Tables and charts
- Microsoft Access including ability to design databases, queries and reports
- Microsoft PowerPoint including ability to develop presentation graphics summarizing extensive data sets

##### Main Responsibilities:

Candidate will be required to work closely with the department manager to establish and maintain the following:

- Assist in developing and establishing metrics
- Establish goals and establish leading indicators
- Design and manage surveys
- Set procedures for the initial collection of data
- Process and analyse the data in context, looking for patterns to help make decisions
- Advise on findings and recommend strategy
- Design reports to improve the quality of internal reporting and corrective action
- Report against standards in industry
- With the aid of mathematical techniques and software, analysing data, interpreting results and indicating the reliability of findings
- Presenting and explaining results to clients and advising on strategy
- Advising policymakers on key issues
- Reporting against "cause and effect" action plans to determine the impact of action plans

If you would like to be part of this exciting team with a leading EPCM Joint venture Project, please click on the "Apply Now" button below.

##### Job Ref:

Ambit Engineering Perth  
10 Level 8/105 St Georges Terrace, Perth  
WA 6000

[www.ambitengineering.com.au](http://www.ambitengineering.com.au)



#### ABS Profile

As Australia's national statistical agency, the ABS provides statistics on a wide range of economic, social and environmental matters, covering government, business and the community. The ABS also has an important coordination function with respect to the statistical activities of other official bodies, both in Australia and overseas.

#### ABS Graduate Development Program

Each year, the ABS seeks to employ highly skilled graduates in Canberra and around Australia, who are passionate about contributing to the future shape of our nation through enabling informed decision-making.

We offer exciting and challenging careers to successful applicants from a wide range of degrees and specialisations. The ABS employs graduates across all areas of the organisation.

#### Relevant degrees include:

Mathematics, Statistics, Economics, Econometrics, Information Technology, Accounting, Business Commerce, Communication, Demography, Finance, Geography, Human Resources, Humanities, Information Management, Management, Psychology, Social Science.

#### Website and Contacts

For more information about Graduate, Cadet, Scholarship and Vacation opportunities at the ABS, including key dates, please visit our website ([www.abs.gov.au/careers](http://www.abs.gov.au/careers)), or contact the Graduate Recruitment Team on 1800 262 800 or email

GRADUATE & UNI RECRUITMENT

# Teaching

## Back to school!

Maths teachers are in demand here in Australia and overseas. Teaching can be a flexible and secure career with opportunities to positively influence students, to work in urban or rural areas, and to achieve seniority. Many teaching advertisements are now only shown online, so you should check your state government website for further notices.



### Mathematics Teacher

Full-time temporary position  
(LSL Term 3 2010 only)

We are currently seeking a Mathematics Teacher to take up the teaching load of one of our Mathematics Teachers who will be on Long Service Leave. This will be a full-time temporary position commencing Term 3 2010. Applicants should show their experience across Years 7-12.

Applicants must be willing to participate fully in School life, be involved in its co curricular programme and be in accord with and contribute to the School's vital Christian aims and ethos.

Teachers interested in this position should follow the application instructions on our website:  
[http://www.sacs.nsw.edu.au/employment/application\\_instructions](http://www.sacs.nsw.edu.au/employment/application_instructions)

Enquiries should be directed to:

Staffing Services Officer  
Telephone: 02  
Facsimile: 02  
Email to:

**St Andrew's Cathedral School**  
**The Head of School**  
Sydney Square  
Sydney NSW 2000  
Telephone:  
Fax:  
[www.sacs.nsw.edu.au](http://www.sacs.nsw.edu.au)

Applications Close: Applications close: 7 May 2010

It is an offence under the NSW Child Protection (Prohibited Employment) Act 1998 for a person convicted of a serious sex offence to apply for this position.

Email: Please click the Apply Now button below.



Peter Moyes Anglican Community School

### Middle School Mathematics/Science

Applicants for this position may also be considered for pastoral leadership positions within the Middle School.

Information about the School may be found on its website, at which the School's prospectus may also be viewed: [www.petermoyes.wa.edu.au](http://www.petermoyes.wa.edu.au)

Applications for the above positions should be received by MONDAY 17TH MAY, 2010 and addressed to: the Principal, Peter Moyes Anglican Community School, PO Box 240, Quinns Rocks WA 6030.

*A School of the Anglican Schools Commission Inc.*

Peter Moyes Anglican Community School

Elliston Pde Mindarie

Perth Western Australia 6030

Phone: (08) Fax: (08)

Email: Please click the 'Apply Now' button below.



**Penleigh and Essendon Grammar School**  
A Uniting Church School for girls and boys

### Secondary Teacher of Mathematics and Science

- Full time replacement position to the end of the 2010 school year
- Immediate start
- Middle School (boys), Years 7 to 10
- Keilor East Campus

Penleigh and Essendon Grammar School is a Uniting Church school with 2300 students from K-12 at campuses in Moonee Ponds, Essendon and Keilor East.

We seek an experienced teacher who is knowledgeable in the curriculum areas and in current pedagogical thinking; an outstanding classroom teacher committed to student welfare; and willing to contribute to the school's co-curricular programme.

To apply for this position, or to seek a position description and further details about the school, please click on the "Apply Now" button below and you will be re-directed to our website.

Applications are due as soon as possible.

Email: Please click the 'Apply Now' button below.

# Teaching

## Opportunities at Bialik College



Bialik College is a leading independent co-educational Jewish school for students from K-Yr 12, catering for over 1000 students.

### English and Humanities Teacher

Full time position

Middle School experience is essential and the ideal candidate will have a focus on English.

### Maths and Science Teacher

Full time position - starting Term 3

Middle School experience is essential.

Applications together with the names of 3 referees should be forwarded to au no later than 5.00pm on Thursday 1 April 2010. Additional information, including position descriptions, is located at [www.bialik.vic.edu.au/about-bialik/employment](http://www.bialik.vic.edu.au/about-bialik/employment).

Sam & Minnie Smorgon Campus  
429 Auburn Road East Hawthorn VIC 3123

[www.bialik.vic.edu.au](http://www.bialik.vic.edu.au)

## Secondary Mathematics and Science Teacher

AUSTRALIAN INTERNATIONAL ACADEMY

MATHEMATICS AND SCIENCE TEACHERS

Australian International Academy established in 1983 is an independent co-educational school of 2500 students at four Campuses in Melbourne, Sydney and Abu Dhabi. The Academy offers VCE and all the International Baccalaureate (IB) programs.

Applications are invited from suitably qualified teachers for the following position.

Melbourne Senior Campus:

Year 7 to 11 Mathematics and Science teacher

The Academy offers excellent employment conditions with a salary higher than the Independent schools award.

Applicants should send full details of qualifications and experience, which must include a copy of transcripts of tertiary results, and the names of three referees to:

The Head of Academy  
Australian International Academy  
56 Bakers Rd., North Coburg 3058  
Ph : Fax :  
Email to Director's Secretary Ms :

Applications by: Monday 7 June, 2010

**APPLY**

You must have the right to live and work in this location to apply for this job.

## Maths Teacher

St Luke's College Karratha is a Catholic co-educational year 8-12 school of 400 students and 40 staff. It is located in the Pilbara which is the vibrant centre of West Australian mining. The Remote Area Package that applies for St Luke's College teachers can be accessed through [www.ceo.wa.edu.au](http://www.ceo.wa.edu.au)

Applicants are invited to submit a curriculum Vitae, including the names and contact numbers of three referees, one of whom must be the current employer. All prospective employees, prior to being appointed, must provide a Western Australian College of Teaching Registration number. [www.collegeoffeteaching.wa.edu.au](http://www.collegeoffeteaching.wa.edu.au)

Direct enquiries may be made to the Principal at 08 9181 9711 or

Applications close Monday 28 June 2010.  
All applications are to be made to The Principal, St Luke's College, PO Box 971, Karratha WA 6714 or

Email: Please click the 'Apply Now' button below.

# Further Information

## About the advertisements

- These advertisements are only a sample. By no means should you think that they set the boundaries for what is possible now or in the future.
- We hope that Maths Ad(d)s has helped you to see that adding Mathematics and Statistics to your skills brings good reward.
- With flexibility, enthusiasm and a positive attitude when you apply for a your position, many opportunities will be open to you.

## More job advertisements

Search using keywords such as '*mathematics*' and '*statistics*' and see where a degree in mathematics and statistics can take you!

- CareerOne [www.careerone.com.au](http://www.careerone.com.au)
- My Career [mycareer.com.au](http://mycareer.com.au)
- Seek [www.seek.com.au](http://www.seek.com.au)

## Mathematics and statistics at work

- Career profiles [www.mathscareers.org.au](http://www.mathscareers.org.au)  
[www.ams.org/careers/archived.html](http://www.ams.org/careers/archived.html)  
[www.maa.org/careers/profiles.html](http://www.maa.org/careers/profiles.html)

## Some other useful websites

- Australian Mathematical Society [www.austms.org.au/careers](http://www.austms.org.au/careers)
- Statistical Society of Australia [www.statsci.org/careers.html](http://www.statsci.org/careers.html)
- CSIRO Mathematical and Information Sciences [www.cmis.csiro.au/careers](http://www.cmis.csiro.au/careers)
- myfuture - career information and exploration service [www.myfuture.edu.au/](http://www.myfuture.edu.au/)

## Where to get a mathematical or statistical sciences degree

The AMSI website has links to many Australian mathematics and statistics departmental web pages where you can discover the best course for you.

[www.amsi.org.au/amsi\\_members.php](http://www.amsi.org.au/amsi_members.php)

AMSI/ICE-EM would like to thank the employers who kindly gave permission to reproduce their employment advertisements in this publication.

Prepared for AMSI by La Trobe University  
[www.latrobe.edu.au/mathstats/math](http://www.latrobe.edu.au/mathstats/math)



# AMSI Industry Internship Program

*industry  
experience*

 *access to hi-end  
expertise*

 *new capability, insight  
& solutions*

 *recruitment  
opportunities*

 *funding  
support*

Each year the Australian Mathematical Sciences Institute offers thirty industry placements to post-graduate or post-doctoral fellows from AMSI member institutions.

With the support of an academic mentor, interns typically work on industry projects and problems that require high-level analytical skills for 4 or 5-months. We provide interns with funding of up to \$12,500 for a 5-month placement and the opportunity to participate in a tailored workshop focusing on Analysts and Industry. Placements are open to individuals with well-developed analytical skills trained in mathematics, statistics, IT, engineering, physics, chemistry, life sciences, informatics, business and finance.

Applicants interested in an AMSI Industry Internship placement should e-mail: [enquiries@amsi.org.au](mailto:enquiries@amsi.org.au) or call AMSI at 03 8344 1777

For more information visit:  
[www.amsi.org.au/internships.php](http://www.amsi.org.au/internships.php)



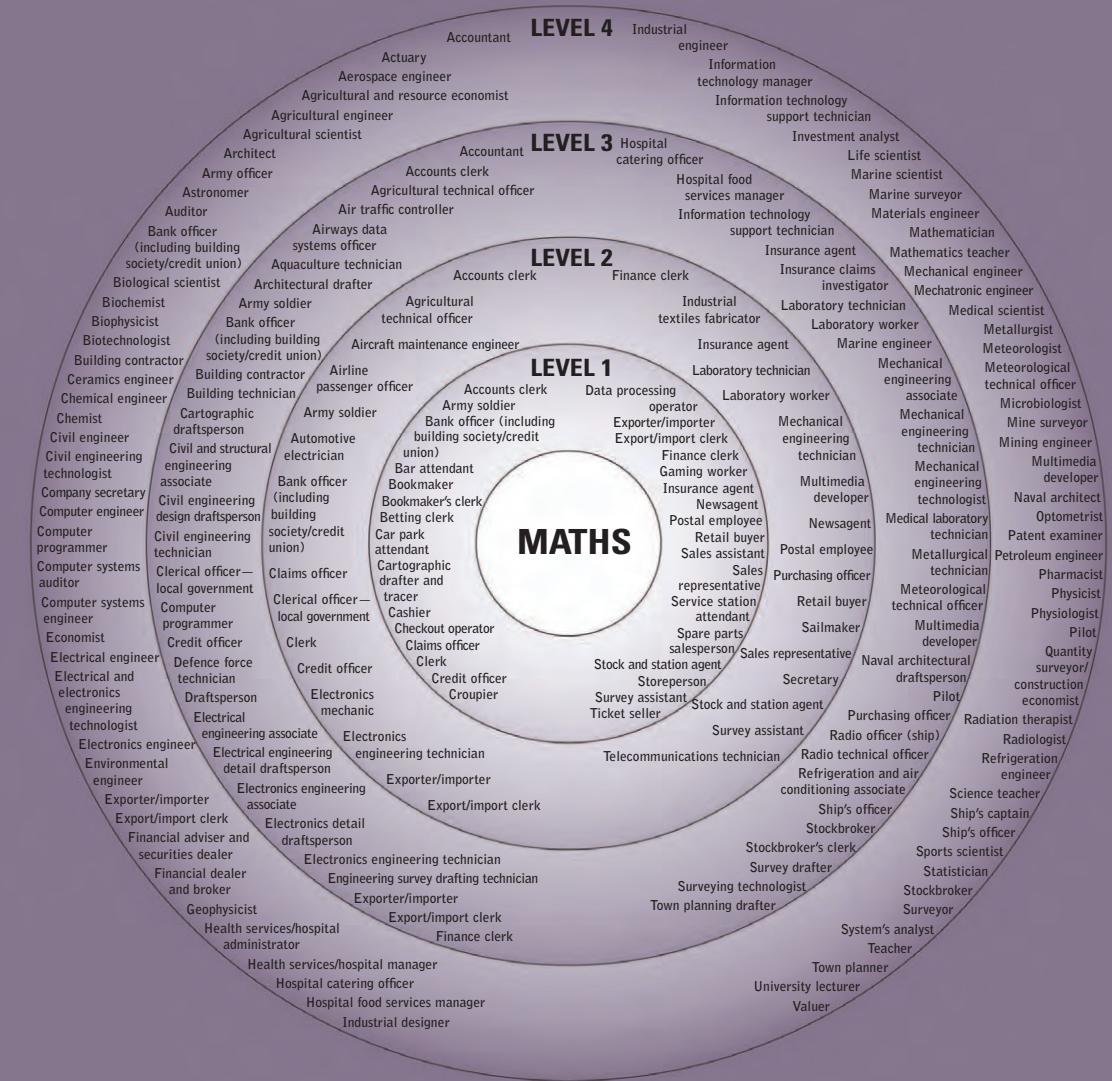


Australian Government

## **Department of Education, Science and Training**

# Do you enjoy or are you good at **MATHS?**

## **Have you considered the following occupations?**



## **Usual training requirements**

- |                |  |                |  |
|----------------|--|----------------|--|
| <b>LEVEL 1</b> | Usually has a skill level equal to the completion of Year 10, the Senior Secondary Certificate of Education, Certificate I or Certificate II qualification. Australian Apprenticeships may be offered at this level. | <b>LEVEL 3</b> | Usually requires a level of skill equal to a Diploma or Advanced Diploma. Study is often undertaken through TAFEs or Registered Training Organisations. Some universities offer studies at this level. |
| <b>LEVEL 2</b> | Usually has a skill level equal to a Certificate III or IV or at least three years relevant experience. Australian Apprenticeships may be offered at this level.   | <b>LEVEL 4</b> | Usually requires the completion of a Bachelor Degree or higher qualification. Study is often undertaken at university.   |

This chart shows a selection of jobs that have some relation to the subject of Maths.

For further information visit [jobguide.dest.gov.au](http://jobguide.dest.gov.au) and [myfuture.edu.au](http://myfuture.edu.au). The four education and training levels are to be used as a guide only. These levels indicate the most common education and/or entry requirements for these jobs.

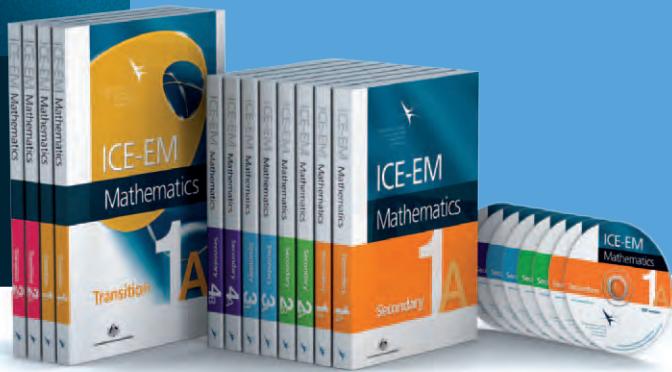
The Maths Bullseye poster is an interactive guide from the myfuture website. All occupations listed on the poster are hyperlinks to extra information about occupations such as duties and tasks, related courses, earnings, vacancies and more. Check it out at <http://tinyurl.com/myfuture-mathsbullseye>

INTERNATIONAL CENTRE  
OF EXCELLENCE FOR  
EDUCATION IN  
MATHEMATICS



# ICE-EM Mathematics

CLEAR  
ACCESSIBLE  
CONNECTED  
CORRECT



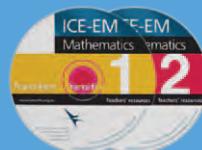
## Prepared for teachers by teachers

A comprehensive mathematics  
education program for  
upper primary to year 10

### Benefits

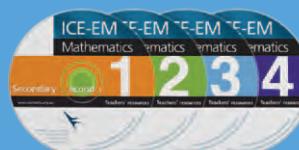
- ✓ Explains mathematical concepts in a clear, natural and structured way
- ✓ Provides graded exercises and activities to promote student learning
- ✓ Uses challenge questions to extend problem-solving skills
- ✓ Includes teacher professional development sessions
- ✓ Provides continuing teacher support by phone or email
- ✓ Ensures teachers can meet their curriculum requirements
- ✓ Prepares primary students for a smooth transition to secondary mathematics
- ✓ Is parent friendly - provides the opportunity to get involved

A teacher resource CD-ROM is  
also available for each volume



#### Transition:

- chapter tests
- black line masters
- all with answers



#### Secondary:

- pre-tests
- skill sheets
- chapter tests
- homework sheets
- all with answers

To purchase, go to our website  
[www.icemaths.org.au](http://www.icemaths.org.au)

For information, email [info@icemaths.org.au](mailto:info@icemaths.org.au)



A black and white photograph of a woman with blonde hair, seen from the side and slightly from behind, looking down at a newspaper she is holding. A silver laptop is open on a table in front of her, and another newspaper lies next to it.

*See where mathematics and statistics can take you*

**biology**  
**business**  
**computing**  
**criminology**  
**data analysis**  
**defence**  
**economics**  
**engineering**  
**energy**  
**epidemiology**  
**environment**  
**finance**  
**game design**  
**health**  
**market research**  
**meteorology**  
**mining**  
**modelling**  
**operations research**  
**statistics**  
**teaching**