



Government
of South Australia

The Hon Greg Combet AM MP
Parliamentary Secretary for Defence Procurement

The Hon Mike Rann
Premier of South Australia

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\$20M BOOST FOR SOUTH AUSTRALIAN DEFENCE INDUSTRY

Greg Combet, Parliamentary Secretary for Defence Procurement, and Mike Rann, Premier of South Australia, today outlined a significant program of investment in South Australia to help build skills within the Australian defence industry sector.

To help support the Defence industry meet the skills challenge it faces, the Rudd Government recently announced a \$61 million investment in Defence Industry Skilling with South Australia set to benefit from up to a third of that expenditure.

During a visit to the University of South Australia today, Mr Combet and Mr Rann outlined four of these initiatives, totalling up to \$20 million over the next 6 years. They include a Schools Pathways Program, a Professional Doctorates Program, a Masters of Systems Support Engineering and an expansion of the Masters of Military Systems Integration.

Greg Combet said that the Rudd Government was committed to dealing with the skills challenge within the defence industry.

"Over the next decade the Government will be investing over \$100 billion to equip and sustain our ADF. We will also be replacing over 80 per cent of the ADF's warfighting equipment," said Mr Combet.

"To help achieve this ambitious program it is essential that we address current industry constraints including the provision of skilled labour," he said.

Mr Combet also acknowledged the work that had been done by Mike Rann and the South Australian Government in encouraging and fostering a vibrant defence industry.

Premier Mike Rann says the fact that South Australia has won a third of this defence training funding is an acknowledgement of the State's growing strength as a defence capital.

"The State Government has worked hard to establish South Australia as the nation's hub for major defence projects," Mr Rann said.

"We've won \$14 billion worth of defence projects over the past four years, including the \$8 billion Air Warfare Destroyer contract. That project is the centrepiece of the defence industry's growth based at Techport Australia, near Port Adelaide, where we're investing more than \$300 million.

"The AWD project alone is expected to create more than 3,000 direct and indirect jobs, and this training package will help ensure that South Australia can provide the skilled workforce needed for this growing industry."

School Pathways Program

Up to \$6 million will be available to establish the South Australian Advanced Technology Schools Pathway Program to provide career pathways to defence industry for young people in South Australia.

This initiative is designed to increase the pool of young people in South Australia interested in and able to join the local defence industry by making them aware of the career opportunities in defence industry in the state. It will also ensure participating schools are providing the right studies and are maintaining close relationships with defence industry.

While funded by the Federal Government, the program will be developed and administered by the South Australian Government.

Professional Doctorates Program

Up to \$5.9 million will also be available to establish a Professional Doctorate Program in Systems Engineering. This initiative seeks to increase the Australian defence industry's capacity and capability in the area of systems engineering.

The program will ensure PhD candidates receive the most up to date coursework and research in systems engineering and ensure they have a clear appreciation of its application to defence industry and the military.

The Defence Systems Innovation Centre (DSIC) will coordinate the development of the course and administer the scholarship program. The professional doctorate degree will be initially offered by the University of South Australia (UniSA) which will work with defence industry to develop an appropriate program.

The first round of scholarships will be offered nationally in early 2010 with an annual intake of 5 PhD candidates.

Masters of Systems Support Engineering

The Commonwealth will invest up to \$6 million to establish a Masters Program in Systems Support Engineering that will equip senior engineering and project managers with the knowledge and understanding to develop and deliver integrated support solutions.

Adelaide based company BAE Systems will co-ordinate the development of the course with RMIT, and with substantial input from the University of South Australia, SAAB and ASC.

The result will be a multi-disciplinary Master Degree education program covering systems engineering, supply chain management, maintenance, logistics operations, logistics engineering, information coherence, engineering enduring systems and architecting of support solutions and business process modelling.

Design and development of the program will commence in the first half of 2009.

Masters of Systems Integration

The Rudd Labor Government will also invest up to \$2.5 million with the University of South Australia to convert the existing Masters of Military Systems Integration to flexible delivery mode.

The Masters program was developed by a partnership of UniSA and three defence industry companies – BAE Systems, Saab Systems and ASC Ltd.

The additional funding provided under this initiative will increase participation in the Masters program especially by industry, Defence civilians and ADF members.

Design and development of the program will take place in the first half of 2009 with testing and delivery scheduled for the second half of next year with UniSA anticipating up to 50 enrolments in the program per semester by 2011.

These initiatives will help further position South Australia as a hub of advanced defence industry, particularly in systems engineering and integration.

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INVESTING IN SOUTH AUSTRALIAN DEFENCE SKILLS

THE SKILLS CHALLENGE

Over the next decade it is anticipated that over 80 per cent of the ADF's war fighting equipment will need to be replaced. To do this the Federal Government will invest over \$100 billion in buying and maintain defence equipment.

South Australia will play a very significant role in this program due to the large investment made in the defence sector by the South Australian Government. In the next decade there is at least \$30 billion worth of work where some South Australian involvement may be expected. Some of the projects include:

- The Air Warfare Destroyer Program
- SEA 1000 - The Future Submarine
- Land 400 – The multi-billion dollar replacement of the M113 and ASLAVs.
- Air 7000 Phase 2B - Maritime Patrol Aircraft.
- Air 6000 – New Air Combat Capability

The South Australian Centre for Economic Studies has predicted that a 65 per cent increase in tradespeople required by the SA defence industry over a 4 year period.

ADVANCED TECHNOLOGY INDUSTRY SCHOOLS PATHWAY PROGRAM

What does the program seek to achieve?

- The South Australian Advanced Technology Schools Pathway Program will provide career pathways to defence industry for young people in South Australia. This will be achieved by
 - increasing the pool of young people ready to move from school into further education and apprenticeships, internships, scholarships and part-time work/study combinations in defence industry; and
 - increasing employer awareness of options for recruiting young people and the value to business of doing so.
- This will ensure that students are made aware of career opportunities in defence industry in the state, and have a clear understanding of the studies required to undertake those careers. It will also make sure that schools participating in the program are providing the right studies and training for students to be able to work towards those careers and allow defence industry to engage with participating schools, providing awareness and work experience opportunities for interested students.
- The initiative aims to increase the pool of young people in South Australia interested and able to join local defence industry, and build upon the strong advanced technology skills base that exists in the region.

How will the program be run?

- This project will be run through the South Australian Government, who will have responsibility and accountability for the design, project leadership, management and delivery of all facets of the program.
- A project steering group will be established in early 2009, bringing together stakeholders including schools, SA Department of Further Education Employment Science & Technology, RTO personnel, an Advanced Technology Working Group. South Australia's defence industry and DMO.

When will the program be implemented?

- Commencing 2009, Advanced Technology Industry Pathways Partnerships will be established, with lead schools identified in three 'Trade Schools for the Future' clusters and the engagement of the Australian Sciences and Maths School, the Flinders University Centre for 21st century Science, the Defence Teaming Centre and Registered Training Organisations.
- Development of industry endorsed vocational curriculum, higher education pathways and career development for students in years 10-12 will proceed throughout 2009 and 2010.
- Commencing October 2009 enhanced teaching approaches to maths and science for students in years 6-9 will see 18 project schools participate in the development of an applied Maths and Science curriculum relevant to Advanced Technology.
- Curriculum developments will be complemented with a series of training and development programs for teachers of students in years 6-12, focusing on applied maths and science for younger students.
- By 2013 up to 1000 year 11 and 12 students will be participating in the program, accessing the tailored curriculum, partaking in peer mentoring and work placement sourcing apprenticeships and cadetships.

INDUSTRY FOCUSED POSTGRADUATE PROGRAM PROPOSAL

What does the program seek to achieve?

- The Professional Doctorate program in Systems Engineering is in response to an identified need and seeks to increase the capacity and capability of defence industry in the area of systems engineering.
- This program will ensure PhD candidates receive the most up to date coursework and research in systems engineering and ensure they have a clear understanding of systems engineering and its application in the military.
- The program will be accessible by applicants from across Australia and provides fee and work release scholarships for the research component of the program. Defence industry will provide input in the form of lecturers and supervisors.

How will the program be run?

- The Defence Systems Innovation Centre (DSIC) will coordinate the development of courses that meet defence industry requirements, provide the definition and supervision arrangements for the research projects and oversee development and administration of the scholarships. The professional doctorate degree will be offered by the University of South Australia initially.
- While Defence will work closely with DSIC to ensure the doctorate program meets the needs of defence industry and provide program funding of up to \$5.9 million, the development and implementation of the program will be the Universities responsibility.
- The University of South Australia will need to liaise closely with defence industry to develop a program that is appropriate and relevant to the land, air, sea and electronics domains of defence industry and Defence.

When will the program be implemented?

- Scoping and planning for the doctorate program will occur in 2009 with DSIC gathering the needs of Defence and defence industry and developing the courses. Secure facilities for undertaking research components will be sourced and the program for fee and work release scholarships for the research component of the Doctorate Program developed.
- The first round of scholarships will be offered nationally in early 2010 with an annual intake of 5 PhD candidates.

MASTER OF SYSTEMS SUPPORT ENGINEERING PROGRAM

What does the program seek to achieve?

- The Masters course in Systems Support Engineering is in response to an identified need and seeks to increase the capacity and capability of defence industry in the area of systems engineering.
- The program equips senior engineering and project managers with the knowledge and understanding to develop and deliver integrated support solutions.
- The multi-disciplinary Master Degree program covers systems engineering, supply chain management maintenance, maintenance, logistics, operations, logistics engineering, information coherence, engineering enduring systems and architecting of support solutions and business process modelling.
- The program will be developed in flexible delivery mode and will be accessible by applicants from across Australia.

How will the program be run?

- BAE Systems, with input from SAAB and ASC, will project manage the course development. RMIT with assistance from the University of South Australia will provide the academic inputs. The course will be developed and offered in flexible delivery mode.
- The commercial arrangements will be based on those established to develop the Master of Military Systems Integration which is offered by the University of South Australia.

When will the program be implemented?

- Development of the course content will begin in 2009 followed by testing and delivery.

MASTER OF MILITARY SYSTEMS INTEGRATION CONVERSION

What is the program?

- The University of South Australia has developed a Masters of Military Systems Integration (MSI) in partnership with three defence industry companies – BAE Systems, Saab Systems and ASC Ltd. The development and delivery of this post-graduate course has been supported by the Skilling Australia's Defence Industry (SADI) Program.
- This new initiative aims to increase access by all stakeholders (Industry, DMO, DSTO and the ADF) to the existing Masters of Military Systems Integration (MSI) Program, thereby addressing the short-term demand for up to 3,000 additional system engineering-trained personnel among industry alone.

What does the program seek to achieve?

- A flexible delivery mode of the current courseware, comprising a suite of integrated learning modules, with emphasis on:-
 - high levels of granularity;
 - best-practice delivery methods;
 - multiple entry/exit points;
 - strong peer interaction; and
 - authentic skill developmentOnce developed, the Flexible MSI program will be made available to all Australian defence sector stakeholders, regardless of geographic location.
- The medium to long-term skill development opportunities of a flexible MSI Program will lead to improved returns on defence capability development investment, significant de-risking of projects, increased efficiency in acquisition processes and ultimately, to enhanced defence capability.

How will the program be run?

- Defence will provide up to \$2.5M funding for the program through an agreement with the University of South Australia. Ownership of the flexible MSI program will reside within two primary groups;
 - UniSA: to deliver project management, program design, development of flexible learning modules, testing and pedagogical quality control, and the ongoing delivery of a flexible MSI program.
 - Industry Partners: to ensure program quality and integrity, for subject matter expertise and consultation, program design, module development, and operational validation.

When will the program be implemented?

- Program design and development will be conducted in the first half of 2009. With program testing and delivery scheduled for the second half of 2009, the University anticipates opening the program to enrolments from next year's July intake.
- The University anticipates up to 50 student enrolments in the MSI program per semester by 2011.