



MESSAGE FROM THE CHIEF DEFENCE SCIENTIST

AUSMURI, Australia's partnership program with the US Multidisciplinary University Research Initiative (MURI), is a \$25 million program under the Next Generation Technologies Fund. Aligned with Defence's science and technology priorities, the program is led by DST.

Its aim is to encourage collaboration between Australian universities and their US counterparts to undertake research on high priority projects for future Defence capabilities.

Another aim is to strengthen Australia's science and technology capabilities and build healthy communities of practice in cutting edge defence science.

Inspired by the incredible outcomes of the US MURI program over the past thirty years, AUSMURI will open doors for Australian students to get employment after graduation.

With a treasure trove of brilliant minds, universities are a trusted and valuable partner for Defence.

Chief benefits of the program include increased skills, capacity and networks for Australian universities in key technology fields of high potential for future Defence capabilities. The program also provides substantial leverage of US co-investment in large collaborative scientific research projects.

It is my hope that this initiative will be embraced by Australia's universities and become business as usual in the future.

Dr Alex Zelinsky
Chief Defence Scientist



MESSAGE FROM THE VICE CHANCELLOR

This is a tremendous opportunity for the best scientists from Australian universities to collaborate with our counterparts in the United States in vital research for the future defence and security of Australia. The generous investment of \$25 million from the Next Generation Technologies Fund over the next nine years is a catalyst for exchange and innovation, providing scientists with the certainty and security to explore often unimagined solutions.

The AUSMURI program is an unprecedented opportunity for universities in this country to become trusted partners with their US counterparts on critical Defence projects of benefit to both countries. Australian universities have a long tradition of innovation and engagement with industry, government and civil society.

Strategic alliances which combine depth and breadth of expertise of this kind have been proven to deliver remarkable benefits to our local and global communities. In the US, a federal government-university partnership developed by President Franklin D Roosevelt during World War II led to scientific breakthroughs regarded as critical to the war effort, according to the National Research Council, including penicillin, jet propulsion and radar.

With the support of Defence Science and Technology and the Next Generation Technologies Fund, this partnership will advance Australia's defence interests internationally and forge new pathways of research cooperation with universities that share our ambitions to deliver a better future for our people.

Dr Michael Spence AC
Vice Chancellor and Principal, University of Sydney

DEFENCE INNOVATION WEBSITE

The website is home to Defence innovation priorities and helpful documents like our new intellectual property strategy and contracting framework. It's also where you can submit your innovation proposals for the Next Generation Technologies Fund and the Defence Innovation Hub.

INNOVATION PROGRAM LEAD

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Australian Government



DEFENCE INDUSTRY & INNOVATION

NEXT GENERATION
TECHNOLOGIES FUND

AUSMURI

AUSTRALIA-US
MULTIDISCIPLINARY
UNIVERSITY RESEARCH
INITIATIVE PROGRAM

AUSMURI is a nine-year, \$25 million investment program encouraging Australian universities to collaborate with universities in the United States and explore opportunities in designated topics. It complements the Multidisciplinary University Research Initiative (MURI) grant program administered by the US Department of Defense. AUSMURI supports Australian universities which are part of successful bids in the US MURI process.

The program will provide funding of up to \$1 million per year, for three years, to support multidisciplinary teams from Australian universities to undertake research in Australia, working in collaboration with US academic colleagues on high priority projects for future Defence capabilities. The Australian Department of Defence will select a topic from those generated within the US MURI program.

At the end of three years, the AUSMURI funding may be extended for a further two years based on performance and prospects, with an additional annual budget of up to \$1 million.

The AUSMURI program is aimed at giving Defence a capability edge through building Australian expertise, capacity and networks in critical technology areas as outlined in the Next Generation Technologies Fund’s priority areas.

The funding is being provided under the Next Generation Technologies Fund, led by Defence Science and Technology (DST). Opportunities to apply will be advertised on the Defence Innovation website and on DST’s website.

AUSMURI PROCESS

THE AUSMURI OPPORTUNITY OPENS

The US MURI funding opportunity is announced on www.grants.gov
The AUSMURI guidelines and designated topic are published on business.gov.au/ausmuri

YOU COMPLETE AND SUBMIT YOUR MURI PROPOSAL

Through a US lead university, you submit your collaborative MURI proposal to the US authorities in line with MURI requirements. This is a two-stage submission.

YOUR MURI SUBMISSION IS SUCCESSFUL

You are selected to be part of a US-Australia collaborative research project on the designated topic.

SUBMISSION OF APPLICATIONS FOR AUSTRALIAN GOVERNMENT FUNDING

You submit an application for AUSMURI funding through business.gov.au/ausmuri

YOU ARE NOTIFIED OF THE OUTCOME

FUNDING AGREEMENTS ARE EXECUTED

Defence enters into a funding agreement with successful applicants.

DELIVERY OF FUNDS

You undertake the project activity as set out in your agreement with progress being monitored regularly by Defence.



Thickening fluids for new materials



Quantum cryptography

NEXT GENERATION TECHNOLOGIES FUND PRIORITY AREAS

For each year’s AUSMURI round, the selected topic will relate to one of the following nine priority research areas, as defined in the Australian Government’s *2016 Defence Industry Policy Paper*.

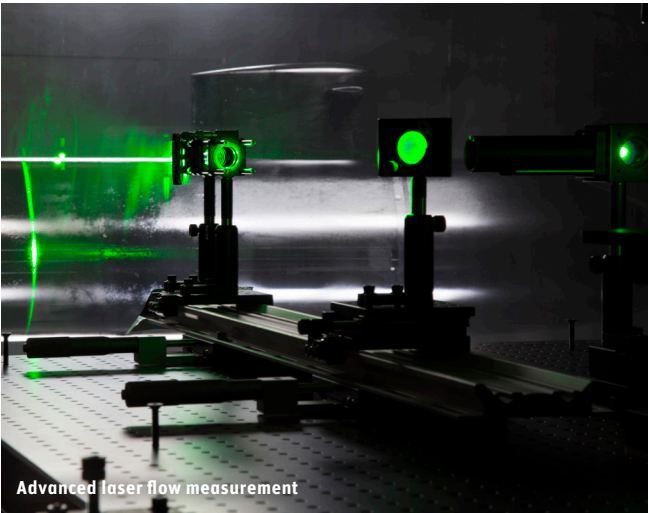


US MURI PROGRAM

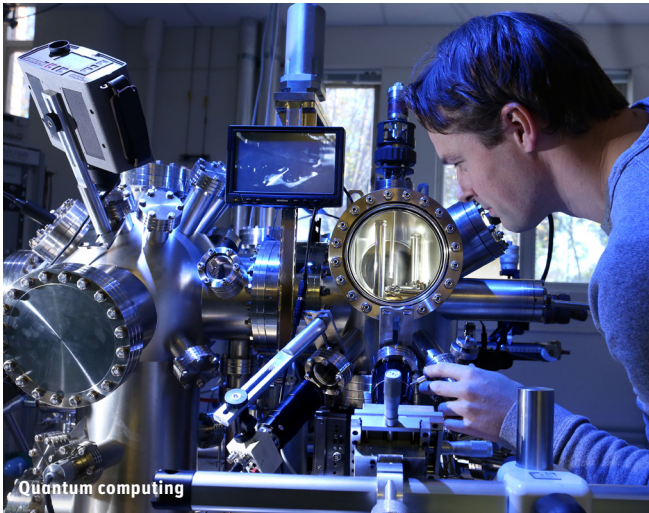
Over three decades, the MURI program, administered by the US Department of Defense (DoD), has regularly produced significant scientific breakthroughs. The size and stability of the program has attracted top flight researchers who have produced a wealth of scientific, economic and military achievements.

MURI efforts involve teams of researchers investigating high priority topics and opportunities that intersect more than one traditional technical discipline. For many military

problems this multidisciplinary approach serves to stimulate innovations, accelerate research progress and expedite transition of results into Defense applications. The DoD expects that MURI programs will promote application of defense research, principally for defense purposes but also for commercial purposes. The research topics described in the MURI announcement generally underpin dual-use defense technologies which are critical to national defense and which also have good potential for commercial application.



Advanced laser flow measurement



Quantum computing