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What is Brilliant and BRIGHT at the AUstralian Synchrotron

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The 3 GeV Australian Synchrotron is one of Australia's premier research facilities and represents one of the biggest single investments in scientific excellence in the nation's history. Following its operation on behalf of the State of Victoria, the Australian Synchrotron is now owned and operated as part of the Australian Nuclear Science and Technology Organisation (ANSTO). While the majority of ANSTO's operations are in Sydney, the Australian Synchrotron is located in the Melbourne suburb of Clayton and is staffed by ~140 scientists, engineers, technicians, and support staff.

The Australian Synchrotron has become an integral part of the Australian and New Zealand research landscape. The facility has now supported over 40,000 user visits to its 10 operational beamlines, resulting in scientific research that has already had a significant and lasting impact. The facility generates more than 500 peer reviewed journal articles annually, with 20% appearing in the world's leading journals.

Moving to Commonwealth operation has allowed provision of funds to significantly refurbish our existing suite of beamlines and machine systems. This presentation will highlight some of the major development projects currently underway at the Australian Synchrotron, as well as indicate the capabilities and activities of several of the current suite of operational beamlines.

Looking forward, the facility has commenced the next phase of Beamline construction, with the development of eight new beamlines. This expansion of the Australian Synchrotron – called the "BRIGHT" program – will deliver a substantial set of new beamline capabilities to complement the existing excellent instrumentation at the facility.

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