

**Ask not what you can do for the accelerator, but what the accelerator can do for you!**

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The unique capabilities of the powerful Heavy Ion Accelerator Facility at the ANU will be described, together with the impact of recent and ongoing upgrades as a result of very welcome and timely Super Science funding. Particular emphasis will be placed upon those features which make it possible to explore novel applications in the areas of materials, environmental, and biomedical science. Nor will fundamental Nuclear Structure and Nuclear Dynamics research be neglected. Illustrations will be drawn from research carried out at the Facility over the past few years.