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iThemba LABS: A multidisciplinary facility for fundamental and applied research using accelerated particle beams

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Since its establishment, iThemba Laboratories for Accelerator-based Sciences (iThemba LABS) has advanced knowledge, research, and development in the domains of particle therapy, isotope manufacturing, subatomic physics, and material and environmental sciences. With up to six particle accelerators, it is the only facility of its kind in the southern hemisphere and the premier ion and particle accelerator laboratory on the African continent. iThemba LABS is renowned both domestically and abroad for being a pioneer in the development of isotopes for scientific and medical applications. iThemba LABS serves as a source of inspiration, a career route, and a learning and sharing tool for both high schools and students. In the business community, iThemba LABS is well-known for producing medicinal isotopes and using cutting-edge accelerator technologies. In academia, iThemba LABS is known as the regional hub for South African university researchers in material, particle and nuclear physics.

A quick overview of iThemba LABS, along with the current opportunities that align with its status as an IAEA Collaborating Centre, will be provided.

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