ANSTO operates much of our country’s landmark science facilities on behalf of the Federal Government including one of the world’s most modern nuclear research reactors, OPAL, a comprehensive suite of neutron beam instruments, the Australian Synchrotron, the National Imaging Facility Research Cyclotron and the soon to be opened Centre for Accelerator Science used for research into the area of health, environment and innovation for industry.

Health

• ANSTO is working with the University of Adelaide and Gamma Vaccines in developing a universal flu vaccine that is expected to do away with the need to produce new influenza vaccines each year.

Enabling innovation for industry

• Over many years, ANSTO Minerals has assisted the sustainability of the minerals industry in South Australia through the provision of ongoing scientific and technical support.

• ANSTO Minerals have been closely involved in process development for the Olympic Dam mine, targeting the recovery of uranium, and improving environmental outcomes in South Australia.

Understanding our world

• ANSTO has been enlisted in the first ever comprehensive study of the elemental make-up of ochre used in archaeological and historical Indigenous Australian objects and artwork. Dr Rachel Popelka-Filcoff, of Flinders University's School of Chemical and Physical Sciences, along with collaborators at the South Australian Museum and Artlab are using ANSTO’s Neutron Activation Analysis (NAA) facilities at the OPAL research reactor to examine the ochre used in these art works.