**Scientific Computing: Public Engagement Generic Learning Outcomes**

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| Participants will… |
| Do | * explore our data science and computing technology further for themselves
* share their understanding of our data science and computing technology with learners, peers, family and their community
* consider choosing, or encouraging others, to study and pursue careers in data science and computing technology
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| Feel | * welcome
* at the right level
* inspired
* involved
* satisfied
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| Value | * data science and computing technology for its economic, social and cultural contribution of to society
* employment in data science and computing technology at all levels
* the sharing of their understanding and skills with others
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| Have skills to | * carry out scientific or technical activities themselves
* participate in informed discussion about science and technology
* share their skills, understanding and values with others
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| Understand | We study and model the universe on the very large and the very small scale. SCD uses computers and data science to enable this at every step of the way. This involves:* Work in the areas of:
* Big Telescopes
* Amazing Materials
* Inside the Atom
* Big Data and Computing
* Coding
* Organising and visualising data
* Hardware
* The marriage of scientific method and large facilities
* The scientific principles and the hardware SCD uses are the same ideas and basic technology that people use in their day to day lives – organising their photo collection, running their ipad – SCD just does it on a much bigger scale.
* Computing is essential and is at the same scale as the science itself experiments.
* Finding benefits for society
* Modern society relies on computing – from google through to weather forecasts. These apply the same ideas and frameworks that SCD does.
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