**Headshot image (required): minimum size is 300px by 300px and of good quality (lighting / composition)**

**Name (required):**

**Role (required):**

**Location (required): Lucas Heights or Clayton**

**Email (required):**

**Phone number (required):**

**Twitter (optional):**

**Linkedin (optional):**

**ResearchGate (required if used):**

**Google Scholar (optional):**

**Role at ANSTO *(required)***

*Example content:*

Dr Helen Maynard-Casely is an instrument scientist for the WOMBAT high-intensity powder diffractometer instrument. She assists and collaborates with visiting scientists, works with the sample environment team in commissioning new equipment for WOMBAT and is co-responsible for improving and expanding the capabilities of the instrument.

Her expertise is in the study of small molecules and ices under pressure.  Much of this work is motivated by the wish to understand the interiors of planetary bodies. Prior to working at the Bragg Institute, Helen was based at the Powder-Diffraction beamline at the [Australian Synchrotron](http://www.synchrotron.org.au/) where she developed her program of research on planetary ices.  She has also previously completed an industry-funded post-doctoral position exploring the high-pressure behaviour of energetic materials.

When not working on the instrument, Helen also works to promotes science to as wide an audience as possible, her skills in this area were honed whilst working as the [Christmas Lecturer](http://www.rigb.org/contentControl?id=00000001882&action=displayContent)’s researcher for the Royal Institution of Great Britain. She currently writes ‘The shores of Titan’ column for [The Conversation](http://theconversation.com/columns/helen-maynard-casely-4931).

**Expertise *(required)***

*Example content:*

Powder diffraction, high-pressure sample environments, crystal structure solution, planetary science, science communication.

**Qualifications & Achievements (optional)**

*Example content:*

* Parkin Prize lecture for Science Communication (2011)
* UK Physical Crystallography Group’s Thesis prize (2010)
* Post-Doctoral positions held at Centre for Science at Extreme Conditions, University of Edinburgh (2009-2010) and Australian Synchrotron (2011-2013).
* PhD in High Pressure Physics from University of Edinburgh (2009)
* Msci in Planetary Science from University College London (2005)
* Holds the Guinness World record for the longest glow-in-the-dark necklace (326.44 m)

## ****Committees, Affiliations & memberships (optional)****

## ***Example content:***

* Editorial Board, Journal of Applied Crystallography
* Editorial Board, Food Structure
* Member, IUCr Commission on Small-Angle Scattering
* Chair, International Conference on Small-Angle Scattering 2012
* Chair, Neutrons and Food, Sydney 2010 and Sydney 2018
* International Programme Committee for the 23rd IUCr Conference
* International Advisory Committee for the International Small-Angle Scattering conference: SAS2009, SAS2015 and SAS2018