



Dear Colleagues,

AWE invites proposals for access to the Orion laser facility at AWE Aldermaston during the period late 2020 / 2021. The facility offers up to 15% (including set-up) of its experimental time to external academic users.

It should be noted that in order to be eligible for academic access time to Orion:

- The Principal Investigator (PI) must be in receipt of funding from a recognised UK academic institution. There is no such requirement for co-investigators;
- Experiments conducted on Orion must have relevance to AWE's technical programme. Examples of relevant studies include, among others: HEDP; ignition and burn-related studies; measurements of EOS and opacity; WDM studies; energy transport; and diagnostic development. Prospective users are recommended to check with AWE, prior to developing a detailed proposal, that their proposed experiment satisfies this requirement;
- Due to engineering support issues on Orion it will not be possible to consider proposals that would require significant engineering to facilitate the experiment;
- An AWE PI will be allocated to successful proposals, it would be beneficial for prospective academic PIs to consider this in advance.

It should be noted that the CLF has agreed to:

- Allow their HPL process to be used for Orion academic access, with the CLF User Office handling the submissions;
- Prioritise proposals through the CLF HPL Facility Access Panel (FAP);
- Provide support at the same level as a current Vulcan experiment for T&S, and prospective users of Orion should make travel arrangements/claims through the CLF;
- Provide targets for these experiments at the same financial and staff resource level as a Vulcan experiment. Target costs exceeding the CLF resource level must be funded by the experimental group. It is essential that you contact CLF Target Fab to discuss your target requirements prior to proposal submission and ensure you provide all target details in the experimental proposals.

Depending on nationality, clearance to gain access to Orion can take some time, so researchers wishing to visit Orion should contact AWE well in advance of their first proposed visit.

Contact

It is strongly recommended that prospective PIs contact AWE before constructing their proposals. For further information on the Orion facility please contact me directly:

Colin Danson, Orion Academic Access Coordinator

Email: Colin.Danson@awe.co.uk

Telephone: +44 118 98 56901

To discuss your target requirements with CLF Target Fabrication please contact:

Chris Spindloe (christopher.spindloe@stfc.ac.uk) +44 1235 446357