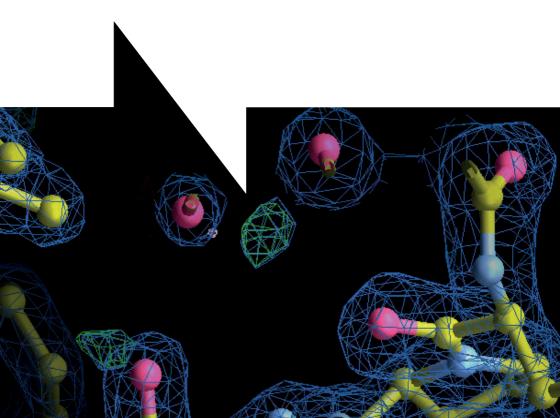


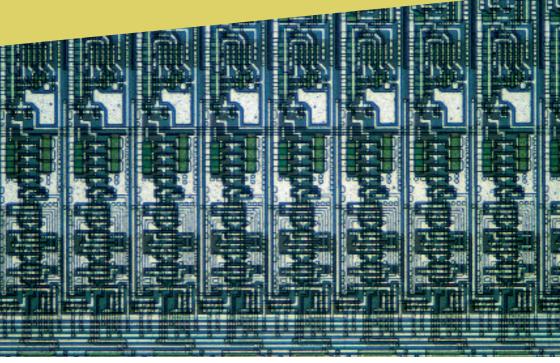
## SCARF

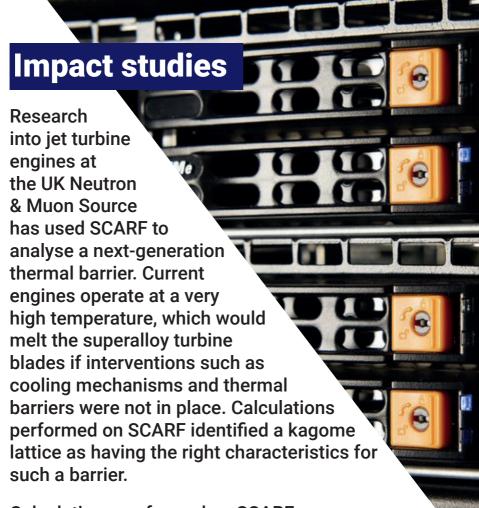
Providing compute for data analysis across a wide range of fields.



## **About SCARF**

SCARF is a high performance computing (HPC) cluster dedicated to providing compute for STFC facilities and their users. Hosted by STFC's Scientific Computing Department, SCARF represents a significant capital investment in HPC and assists analysis of data supporting groundbreaking research across a wide range of fields. Hardware is purchased yearly and added seamlessly to the existing cluster, to ensure it remains a state-of-the-art resource.





Calculations performed on SCARF may aid development of a new cancer therapy. Combretastatins are a plant-derived anti-cancer drug which target microtubule assembly and can be 'switched on' using near-infrared wavelengths of light, meaning their toxic activity could be targeted to a specific location in the body. SCARF was used to calculate which chemical modifications of combretastatins are optimal for use in cancer treatment.

13,000 CPU cores

120,000 GPU cores

46.1<sub>M</sub> CPU hours per year

1 PB standard storage available

