

## Justification for the Subsidisation

I am currently working for the project “Atmospheric Pollution and Human Health in an Indian Megacity” funded by NERC at Lancaster University. There is no training fee included in the project, and my contract with Lancaster University will end in October 2020, only two months after the summer school. Therefore, neither the project nor Lancaster University is able to support my attendance at the summer school as it benefits development of future research..

However, this summer school provides a great opportunity to develop the essential skills and network for my research career. I use HPC to investigate the major challenges in climate and air quality. My research involves high-resolution model simulations, post-processing and visualization of satellite and in-situ observations, dealing with modern storage data format, machine learning and big data analysis. However, I often struggle with the technical nature of the tools, big data analysis and effective use of HPC environments. The topics of this summer school address my greatest research needs directly, and the organization of the programme will help me build my own scientific network. These topics will help me to greatly advance my contributions to climate science in future.

I would like to apply for the ‘**Attendance Subsidy**’, and would really appreciate it if the ESiWACE2 project could help me cover the Full Registration fee. Thank you for your consideration.

Ying Chen

Lancaster Environment Centre, Lancaster Uni.