

February 22, 2015

Accelerator Science and Technology Centre
Daresbury Science & Innovation Campus
Daresbury
Warrington
Cheshire
WA4 4AD

To whom it may concern,

I am writing this letter to express my interest in Summer Internship by STFC. Applying to ASTeC directly as I believe it coincide with my goal of becoming an experimental physicist. I am always fascinated and interested in particle accelerator as the research topic revolves around it always excites me. Although theoretical physics maybe a much better choice but just working on the mathematical model alone does not justify the physics in my opinion. Experiment such as LHC and T2K are the kind of work i would be interested in the future and learning physics in this way would be much more exciting.

The last semester, i had to do a personal dissertation on the topic on Neutrino Oscillation. This allowed me to learn new way of finding resources through academic journals. During the course of writing the dissertation, i learned various way of detecting Neutrino that some experiment such as T2K uses. This also allowed me to expand my knowledge on physics beyond the Standard Model and learning some unsolved problem in physics.

The previous placement I did was with Oxford Instruments at Tubney Woods for 8 weeks Through a SEPnet summer placement program. The work I did for the placement were later exhibited at a SEPnet Student Expo in Nov 2014. During the 8 week placement, i was task with designing a experiment to study the Interference fit of a superconducting magnet with an aluminium former. The magnet studied was for a 3 dimensional vector rotate magnet and quenching of the magnet was suspected to be the fit of the magnet. The result was subsequently used for other design of the magnet produced at Oxford Instruments.

Sincerely yours,
Ken Keong Lee