# 2013 YCCSA SUMMER SCHOLARSHIP PROJECT SUBMISSION

This form is for prospective project supervisors to submit their projects to be included in the YCCSA Summer Scholarships Programme for 2013.

It is the purpose of the Summer School that any projects submitted are interdisciplinary in nature.

| | |
|---|---|
| **Date** | *8/5/2013* |
| **Main Supervisor's Name** | *Reidun Twarock* |
| **Main Supervisor's Department** | *Maths/Bio* |
| **Co-supervisors' name(s) and Departments** | *Eric Dykeman* |
| **Project Title** | *Exploring virus structure via multi-media* |
| **Project Description** | *The wealth of new structural data on viruses presents a challenge for modern virology. In this project we will develop new ways of visualising and communicating such structural data via the multi-media, 360° projection unit in the Ron Cooke Hub. In particular, we will assess the merits of different types of cryo-electron microscopy techniques in this context and use such data to visualise virus structure. This project is suitable both for people with and without computing skills, and a passion for communicating scientific results would be an advantage.* |
| **Required skills** | |
| **Project dates** | *I am at a conference 15 July – 19 July, so the project will need to start one week later on 22nd of July 2013.* |
| **Other information** | *An interest in using computational tools such as Pymol and a passion for communicating science are required for this project.* |
| **References** | *Caspar* D L D & *Klug* A. Physical principles in the construction of regular viruses. Cold Spring Harbor Symp. 27:1-24, *1962*.<br>Structure of small *viruses*. *Crick* F.H. and *Watson* J.D.. *Nature* 177, 473 - 475 (March 1956) |

When complete, please email the form to sarah.christmas@york.ac.uk