1 Faculty’s Commitment

NGS - The home of cutting-edge, cross- and trans-disciplinary PhD research and graduate education.

The NUS Graduate School for Integrative Sciences and Engineering (NGS) was established in 2003 to spearhead and promote integrative PhD research and education that transcend traditional disciplinary boundaries.

- Our multi-disciplinary environment affords exceptionally gifted, motivated students tremendous flexibility. If they choose to, students can explore the possibility of dipping into fields of study and research different from the disciplines they originate from.
- Our students have access to a world-class infrastructure, and receive research supervision from distinguished academics from two (or more) different fields of their choosing and interests.
- And, the curriculum is tailored by and to each individual student’s needs and interests, and affords ample opportunities to ensure and enhance integrative learning.

Such a totality in research and education effectively sharpens their critical thinking skills, and helps them to design their PhD projects in creative and interesting ways.

NGS has tight links with the relevant Faculties/Schools at NUS, and the various research institutes of the Agency for Science, Technology and Research (A*STAR). NGS also taps into NUS’ web of synergetic, complementary partnerships with a select number of world-leading overseas research institutes and knowledge organisations in the USA, the UK, Continental Europe, Japan, China, South Korea, Australia, etc. Thus, NGS is able to offer talented students the opportunity to engage in globally progressive research in superb research facilities both within Singapore and further afield.

NGS Philosophy

NGS recognises that raising and solving many of the most challenging problems in science, engineering, computing and bio-medicine requires integrative research approaches. Students are encouraged to transcend traditional discipline boundaries in their PhD research projects to elevate progress to new levels. For example, the skill sets of computational scientists, mathematicians or physicists can be deployed to model complex biological systems, engineers can draw on their specialist knowledge to devise novel methods for wound-healing or drug delivery, and life science researchers can apply their knowledge of cell structures and functions to the study of artificial membranes.

NGS Mission

Our mission is to provide world-leading integrative graduate education and research in science, engineering, computing, and related aspects of medicine.

NGS is a talent programme with two major thrusts:
- NGS offers top-quality students opportunities in trans-disciplinary research with eminent researchers,
leading to breakthroughs at the intersection and/or union of two or more disciplines.
• NGS provides a cross-disciplinary, broad-based graduate education which is tailored to individual needs and interests.

NGS Vision

NGS aspires to be a globally admired graduate school, developing creative thinkers with excellent communication skills and strong ethics, who will go on to be leaders in their respective domains, and in society