

Information Sheet for Students

1. Modules

a. Training modules conducted by HCI.

These training modules will be offered upon assessment of the needs of the students who are accepted in the programme. Modules include teaching of fundamental research skills as well as laboratory experimental techniques.

b. Research Attachment with mentorship by A*STAR's researchers (*A*STAR Mentors*).

The aims of the research attachment are to provide students with opportunities to work under the mentorship of a researcher and to be exposed to technologies not easily available in the school laboratories. The students will learn about the complexities and challenges of research work and understand what it takes to be a good researcher.

The students, with some guidance from their mentors, are expected to work independently as far as possible. They should be able to propose their research project, plan their research work schedule and commit time for research work as stipulated under general guidelines of the Time Frame. They must also meet the assessment criteria set out by the NTU panel of Examiners in order to qualify for assessment under the H3 Research Programme.

Students will be mentored by a mentor from A*STAR as well as a teacher mentor from HCI. Students will be attached to perform their research work at the assigned A*STAR Research Institutes (RI).

c. Assessment of project by NTU's panel of Examiners.

NTU will provide the panel of Examiners comprising NTU assessors and NTU moderators to assess students' research projects leading to a H3 Research Grade for the GCE A-Level Examination as outlined by Singapore Examination and Assessment Board (SEAB).

The panel of Examiners will be made up of NTU faculty members appointed by the relevant Divisions in accordance to the research topics. Both the assessor and the moderator are independent examiners who are not directly involved in the students' research process and work.

2. Funding

MOE will provide monetary grant for the student in accordance to the H3 subject guidelines. In addition, lab expenses incurred during students' attachment and research at A*STAR shall be fully subsidised by A*STAR. ***The student will also pay a nominal fee (\$60) for the programme.***

3. Eligibility Criteria

The programme is open to JC 1 students who meet the following criteria:

- a. Student must offer at least one H2 science or math subject relevant to the area of research.
- b. Students must have an msg < 2 or L1R5 < 7 **and** A1 distinctions in all sciences and maths subjects at Year 4/O-Level Exams. Applicants must have some relevant science research experience.

The target size of students admitted into the programme is **10** (max).

H3 NTU-A*STAR-HCI SCIENCE RESEARCH PROGRAMME

4. Duration and Time-frame

Month	Programme
Mar - Apr	List of H3 project information sent to HCI
	Briefing for JC 1 students on H3 NTU-A*STAR-HCI. Application open to JC 1.
	Selection of students by HCI
mid May	Announcement of successful candidates and projects assigned
May – June	Research training modules
	Orientation meeting with A*STAR mentors @ A*STAR - student to propose research timeline
June Term Break	Research lab familiarisation & block of 4 weeks full time attachment @A*STAR (9am-5pm)
	Preliminary Literature review & Writing research proposal
Mid-June	Submission of draft proposal to A*STAR mentor
End-June	Feedback from A*STAR mentor on draft proposal
July	Submission of final research proposal to A*STAR mentor & start of part-time attachment till Sept
Aug	Approval of research proposals by A*STAR & NTU
	Submission of confirmed H3 students' list to CPDD, SEAB and NTU. Withdrawal deadline for H3
Sept – early Nov	Break from research (preparation for academic exams)
Nov/Dec Break	Block of 4-5 weeks Full Time Research Attachment @A*STAR (completion of data collection)
Dec	Consolidation & report writing
JC2 – Jan	Consolidation & report writing
JC2 – Jan	Submission of research paper to NTU
JC2 – Feb	Assessment of Oral Presentation [Form C] by NTU
JC2 – Feb	Assessment of Process [Form A] by A*STAR mentor & teacher mentor
JC2 – Feb	End of programme for students

H3 NTU-A*STAR-HCI SCIENCE RESEARCH PROGRAMME

APPLICATION PROCEDURES

- (a) Obtain a soft copy of the application form from the students' smb. Complete all parts of the application form.
- (b) Email a soft copy of the application form to Mrs Tan Ai Chin, Dean/Research Studies.

Check iEMB for closing date

Email to tanac@hci.edu.sg

Name of Coordinator: Mrs Tan Ai Chin (Dean of Research Studies)
Office: Above College Reception, Level 2 (PC Room)