



STEM WORLD ASEAN

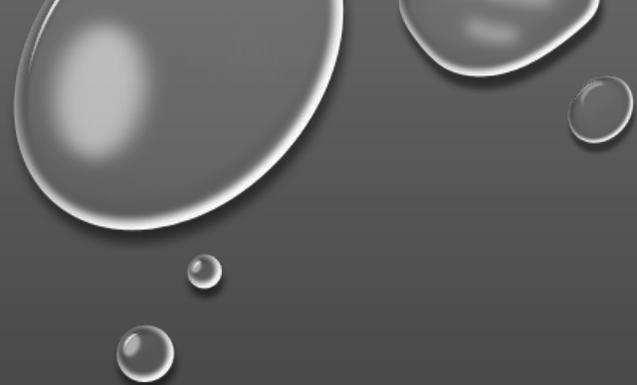
EXSCITEC AND THE UNIVERSITY OF NOTTINGHAM

SUPPORTED BY

STEMAX

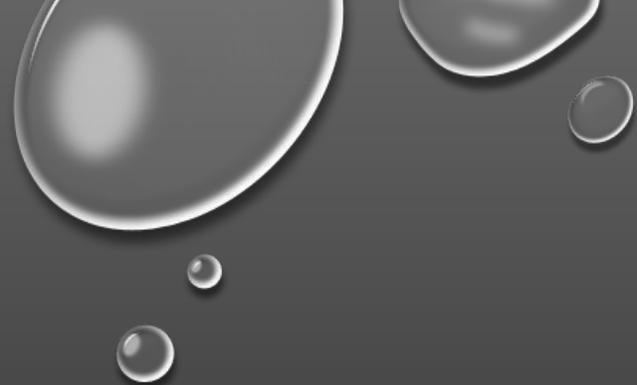


We are pleased to announce our new summer school venue at The University of Nottingham Malaysia. Located close to Kuala Lumpur, The University of Nottingham Malaysia is committed to providing a truly international education.



**THE UNIVERSITY
OF
NOTTINGHAM
MALAYSIA IS
COMMITTED TO
PROVIDING A
TRULY
INTERNATIONAL
EDUCATION.**

- THE UNIVERSITY OF NOTTINGHAM MALAYSIA OFFERS FANTASTIC FACILITIES WITHIN A SECURE, MODERN CAMPUS.
- WITH THE OPPORTUNITY TO VISIT LOCAL ATTRACTIONS DURING THE WEEK AND KUALA LUMPUR ATTRACTIONS AT THE WEEKEND, THIS WONDERFUL VENUE WILL ENABLE OUR COMMUNITY OF POTENTIAL YOUNG SCIENTISTS, ENGINEERS, CLINICIANS AND MATHEMATICIANS TO STUDY TOGETHER AND ALSO ENJOY A DIVERSE RANGE OF FUN LEISURE TIME ACTIVITIES.
- WE WELCOME RESIDENTIAL STUDENTS FROM ALL OVER THE WORLD TO THE SUMMER SCHOOL. THE FIRST CLASS FACILITIES OFFER AN EXCELLENT OPPORTUNITY TO HARNESS A STUDENT'S NATURAL CURIOSITY TO QUESTION, EXPLORE, INVESTIGATE AND EXPERIMENT IN A STIMULATING, SAFE AND SECURE ENVIRONMENT.



STEM WORLD

- STEM WORLD SUMMER SCHOOL IS DESIGNED FOR STUDENTS BETWEEN THE AGES OF 12 AND 17. WE AIM TO **MOTIVATE** STUDENTS AND RAISE ASPIRATIONS WHILST PROVIDING COMPREHENSIVE IN-DEPTH **KNOWLEDGE** AND **LEARNING**.
- EACH ACADEMIC STRAND IS DELIVERED BY HIGHLY QUALIFIED AND **ENTHUSIASTIC STEM PROFESSIONALS** WHO, THROUGH THEIR INTIMATE SUBJECT KNOWLEDGE, HAVE A **PASSION TO INSPIRE AND HARNESS CURIOSITY**.
- OUR KNOWLEDGEABLE, INSPIRING AND MOTIVATIONAL SCIENTISTS PROVIDE **SPECIALIST** SUPPORT THROUGH ACTIVITIES AIMED AT INSPIRING **INTEREST** IN STEM SUBJECTS. FOR THOSE THINKING ABOUT FUTURE **PATHWAYS** THAT ARE BASED ON THE STEM SUBJECTS AND FOR CITIZENS OF THE **FUTURE** WHO WILL NEED TO MAKE KEY DECISIONS ABOUT SCIENCE, ENGINEERING AND MEDICAL **IMPACT**, STEM WORLD WILL PROVIDE A **FUSION OF IDEAS, OPPORTUNITIES AND STIMULATION** THAT WILL BE ENJOYED AND REMEMBERED AS A **LIFE CHANGING EXPERIENCE**.
- STUDENTS CAN CHOOSE FROM A RANGE OF DIFFERENT ACADEMIC STRANDS FOR WEEK ONE AND WEEK TWO. WE HAVE LOTS OF OPTIONS AVAILABLE - PLEASE REFER TO THE THE STRAND INFORMATION BELOW CONFIRMING WHICH WEEKS EACH STRAND IS AVAILABLE.

The STEM subjects impact on all of our lives and are central to emerging, as well as established, economies.

Although the STEM subjects form a core part of many curriculum offerings it is too often the case that students do not have the opportunity to investigate topics in more detail or indeed explore new areas of scientific endeavour yet to hit the examination schedules. STEM World provides a unique opportunity for students to explore STEM topics in an extended and more relaxed way.

Much STEM research relies on collaboration and teamwork; these are the working practices that form the basis of 'real world' science technology engineering and mathematics forefront activity and which will be emulated through the STEM World Summer School academic environment".



*Alan West MBE
CEO Exscitec*

What is the difference between knowing a lot and being capable of doing things with knowledge?

There is an increasing world trend to provide students with STEM related Core Skills and Problem Solving strategies that will equip them for future career pathways in careers that have yet to be invented. The rate of advance in new technologies, driven by science engineering and mathematics, means that we cannot simply learn the facts we need to know to undertake current work and careers. Instead we must learn how to adapt and change by using the knowledge we have already. STEM methodologies are at the core of this and our ability to adapt rapidly to change is as important as knowing key science and mathematics concepts.



Excitec - Developing and Delivering STEM Summer Schools for 19 years

The long established STEM World Summer School delivers experiences which develop skills and allows participating students to use their knowledge to solve real world problems. These are the types of challenges that will face us all in the future. STEM World will also provide new knowledge in exciting areas of technological development.



21st Century Skills – Skills for Employability and Life

Much STEM research relies on collaboration and teamwork; these are the working practices that form the basis of ‘real world’ science technology engineering and mathematics and will be at the forefront of activity within STEM World.

From Hanoi to Hounslow; Jakarta to Jarrow there is a World demand for people with STEM skills who will be able to adapt to the rapid pace of technological change. STEM World provides an opportunity to experience this exciting and creative working environment.

It will be our pleasure to welcome you to STEM World Summer School 2019 at our wonderful venue of the University of Nottingham Malaysia Campus, where you will experience real science and engineering fit for the 21st Century!

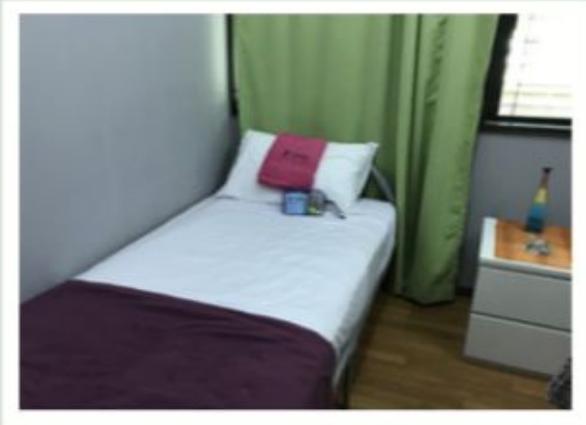


A Typical Week at STEM World Summer Camp

Sun	Weekend Pastoral Programme			Early Arrival Option for Students	Dinner	Evening Pastoral Programme	Lights Out		
Mon	Breakfast & Registration for Residential Students	Arrival & Registration for Non-Residential Students	Academic Intro and Session	Academic Sessions	End of Day	Clubs & Cool Down		BBQ	Evening Pastoral Programme
Tues			Academic Sessions			Lunch		Clubs & Cool Down	Dinner
Wed		Afternoon Excursion / Dinner Off-Campus							
Thu		Academic Sessions		End of Day	Clubs & Cool Down	Dinner		Evening Pastoral Programme	
Fri		Academic Session			Exhibition	Weekend Pastoral Programme			
Sat		Late Departure Option for Students	Weekend Pastoral Programme						

ACCOMMODATION

"A great experience... I got to meet lots of different people from lots of different nationalities!"



"This was the best week ever!"

Each student staying with us on a residential basis will be accommodated in their own well-equipped single bedroom with ensuite bathroom in single sex accommodation floors. Bed linen and a bath towel are provided - an additional towel should be brought for sports/swimming. Students can relax in the many comfortable wind-down areas or utilise the outdoor space.



SOCIAL PROGRAMME



We offer an exciting pastoral programme of evening and weekend activities. Our dedicated pastoral staff provide a well-balanced programme that will compliment and enhance the curricular activities.

The social programme will foster community values amongst fellow students from a diverse range of cultures and will encourage friendships with likeminded peers.

Supportive pastoral staff will oversee students on a variety of day trips, sightseeing excursions and fun team challenges.



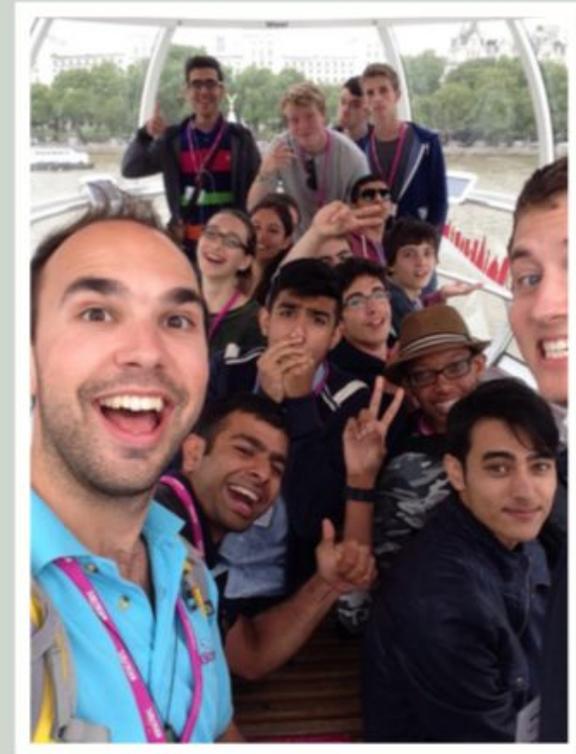


A range of evening activities include:

Swimming, aerobics, dance, bush-craft, mini-Olympics, gym, tennis, basketball, orienteering, team building, computer time, BBQs, film nights, games evenings, chill out.

Wednesday afternoon excursions offer the whole summer school the chance to let their hair down and socialise! In previous years excursions have included; curiosity tours, treasure trails, castle visits, go-karting, waterpark inflatables, tobogganing. This is all followed by a meal in a restaurant before returning to campus where residential students return to their boarding house and non-residential students will be collected by parents.

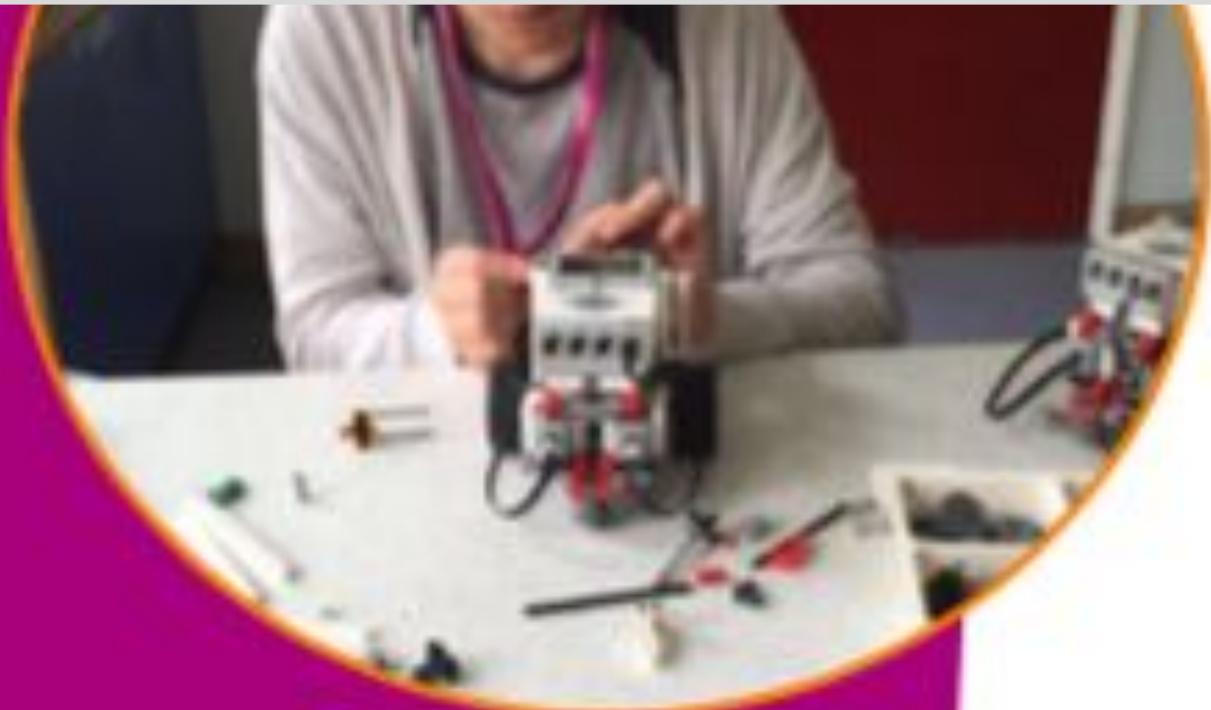
Students staying for the middle weekend will experience sightseeing in Kuala Lumpur.





STRAND OPTIONS AGE 10 - 12

- ROBOTICS/ENGINEERING –
TECHNOLOGY IN A
CHANGING WORLD
- YOUNG SCIENTISTS – CREST
DISCOVERY PASSPORT
- ENVIRONMENTAL SCIENCE –
PLASTICS IN THE
ENVIRONMENT





STRAND OPTIONS AGE 13 - 15

- COMPUTER SCIENCE – CODERS OF THE FUTURE
- ENVIRONMENTAL SCIENCE – THE HUNT FOR MICROPLASTICS
- ENGINEERING FOR ENERGY EFFICIENCY
- BIOTECHNOLOGY – MAKING MICROBES WORK FOR US



STRAND OPTIONS AGE 16 - 17

- ENVIRONMENTAL SCIENCE – CONSERVING TROPICAL ENVIRONMENTS
- COMPUTER SCIENCE – MICROCONTROLLERS: THE MAKING OF THE MODERN WORLD
- BIOMEDICAL SCIENCE – SHERLOCK HOLMES IN THE TROPICS
- CHEMICAL AND ENVIRONMENTAL ENGINEERING FROM BENCH TO COMMODITY PRODUCT
- MECHANICAL AND ELECTRONIC ENGINEERING – INDUSTRIAL REVOLUTION AND THE INTERNET OF THINGS
- PHARMACY – FROM FORREST TO HOSPITAL



RULES AND REGULATIONS 2019

Expected behaviour

Participating in this Event for a week will be very different from your experiences at school. The Event organisers wish all students to benefit from the course and to enjoy this new learning experience. In order to do this, you will be expected to show responsible behaviour while attending the event.

We expect all students to treat the staff and each other with the respect and courtesy they would expect themselves.

We will not tolerate inappropriate conduct such as swearing, rudeness, use of illegal substances, bullying, fighting or disrespectful behaviour. Offensive comments related (but not limited to) race, gender, religious belief, ethnic background will be treated seriously.

Excitec will provide the support of a Senior Residential Assistant and mentors.

UNMC will provide local liaison staff and excursion organisation.

HEALTH AND SAFETY

For health and safety reasons, and for all students to have the opportunity to benefit and enjoy the experience, the following rules and regulations will be in operation. We operate a zero tolerance policy towards alcohol, drugs, smoking or bad behaviour/bullying

- Alcohol must not be brought onto the event site or consumed during the time you are on site
- The purchase or use of any illegal substances is strictly forbidden
- Smoking is not permitted. Underage smoking will contravene the code of behaviour
- Students are expected to remain in their mentor groups at all times and attend all timetabled activities (unless there is a valid reason and notification for absence, such as illness)
- Students are not allowed to leave the site without permission from appropriate course staff
- For residential courses, at no time will a student enter the accommodation of the opposite gender
- **Students are expected to follow any emergency procedure, such as a fire drill, as directed by University or Exscitec staff.**

DUTY OF CARE

Within our duty of care we shall ensure that:

- The safety of young people is paramount to the processes of outreach delivery; and recruitment, selection and training of relevant staff
- A Principal Safeguarding Officer and Designated Support Staff are identifiable to all those who might interact with our working environment
- Appropriate and effective supervision, reporting and whistle-blowing mechanisms are in place
- Reports regarding young people are treated confidentially
- This policy and procedures document is updated regularly and is communicated to all relevant parties.

This policy applies to everyone temporarily or permanently affiliated with our activities. The Principal Safeguarding Officer (Alan West) is supported by a team of Designated Support Staff (Exscitec Staff) who lead a variety of events across the year. All Exscitec staff who work alongside the young people on our courses have a valid enhanced DBS (Formerly CRB – the Criminal Records Bureau) check, and have been vetted to ensure their suitability to work with children. Full versions of our safeguarding policy are available from Exscitec on request.

FAQ

Will it be safe?

All students and staff on an event must wear their ID badges at all times. There is on site 24 hr Security.

All Exscitec Staff have obtained UK Disclosure & Barring Service (DBS) checks in compliance with our safe recruitment policy and procedures. Staff are trained in Safeguarding the Welfare of young persons participating in our events. The Principal Safeguarding Officer (Alan West) is supported by a team of Designated Support who lead a variety of Outreach events across the year. Full versions of our safeguarding policy are available from Exscitec on request

Exscitec/STEM World cannot be held responsible for any damage or loss of personal belongings.

APPLICATION PROCESS

- Students should complete the online application form on the Exscitec website : www.exscitec.com
- Once an application is received, places on the chosen strands will be reserved, subject to receipt of payment and paperwork
- Further information regarding registration etc will be sent no later than three weeks prior to the event start date
- Students arriving at Kuala Lumpur International Airport should provide details of their arrival/departure times as soon as known so that places on the shuttle can be organised. There may be a short wait at the airport before the next shuttle.
- Any questions, please contact alison.brennan@exscitec.com

FAQ

Will I get a certificate?

All students who complete an Exscitec event will be awarded a Certificate of Participation.

CREST Awards will also be available

Can I call home? Is there internet access?

It is important that you contact home and students are encouraged to do so (during the recreational periods only). Access to the internet will be available and time will be set aside each evening in order to facilitate this.

I am staying residentially – what will my accommodation be like?

All residential students will be housed in single bedrooms with en-suite bathrooms.

Male and female students will be housed separately. Teachers and Senior Residential Assistants will be on duty from 16:30 – 08:45. Regular patrols will be made.

Bedding is provided. You will need to bring a towel, toiletries, change of clothes and any personal items which you may require. Please also bring swimming/sports clothes (you may wish to bring an extra towel)

FAQ

What will I eat?

Students staying on a residential basis will be provided with breakfast, lunch, dinner and refreshments are provided. Students attending on a non-residential basis will receive lunch. There is a wide choice of food available to suit all tastes. Some meals will be taken off campus during excursions.

I have specific dietary requirements – what should I do?

If you have any specific dietary needs such as nut/food allergies or lactose intolerance, please let us know when completing the medical section of the application form. Unfortunately we cannot guarantee that meals will be halal or kosher but there will be a vegetarian option available at all mealtimes.

FAQ

What happens if there is an emergency whilst I am at the event?

We require all students to provide us with emergency contact details (landline/mobile and email) for at least two adults (parents/guardians/relatives).

In an emergency, the Event Manager can be contacted 24hrs a day using the number on the Joining Instructions.

Additionally students will be expected to follow the Summer School code of behaviour and staff instructions

FAQ

I am an International Student – what level of English is required?

All academic subjects are taught in English so you must be confident in spoken and written English. We reserve the right to ask you to undertake a short test to confirm your ability. If the participant's level of English is not sufficient to understand leaders and puts safety at risk, then we reserve the right to ask the participant to leave the course activity in question.

FAQ

Can my parents/guardians visit me during the course?

Parents/Guardians are invited to attend the exhibition/presentations and Graduation Ceremony on the Final afternoon.

Visits are not permitted at other times due to the disruption it can cause to the activities and also other students.

FAQ

What is your cancellation policy?

In all cases a minimum 50% non refundable deposit is paid on booking - the balance payment is due by 12th May 2019.

Once a reservation is made, refunds are not possible but the reservation can be transferred to another student (at the discretion of Exscitec and subject to that student meeting the relevant criteria) or the reservation can be deferred to 2020.

We strongly recommend that you have suitable travel insurance as you may be able to claim for any cancellation, subject to terms and conditions.

CONTACT DETAILS

STEM World Recruitment Alison Brennan
alison.brennan@Exscitec.com

Course Director Alan West MBE
alan.west@Exscitec.com

www.Exscitec.co