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PROGRAM BENEFITS

1. Develop research skills and network with industry professionals.
2. Extend your learning beyond the classroom, sharpen critical thinking, problem solving and analytical capabilities.
3. Explore your intellectual interests and career options.
4. Enhance your CV and increase your chance to get accepted at your dream university.
5. Connect and network with like-minded peers, make new friends.

REGISTRATION INFO

scienceresearch@all-inedu.com
0818 0808 1363
This 10-day program is specifically dedicated to Biology-related subjects with emphasis on Immunology, DNA Forensics Science and Genetic Engineering. Through a mix of research, workshops and excursions, students will be exposed to advanced and emerging technologies in life sciences and develop essential research skills.
Participants will stay in a modern and comfortable student accommodation, under our team supervision for the duration of the trip. Activities include:

1. Five-day hands-on workshop at DNA Learning Lab focusing on immunology, genetic engineering and forensic analysis DNA profiling.
   - Learn PCR, DNA purification, bacteria transformation, agarose gel electrophoresis, and blue/white screening.
   - Analyze your own DNA profiles and learn techniques used in forensic science.
   - Perform enzyme-linked immunosorbent assay (ELISA) and understand its application in disease detection.

2. Visits to world-class research institutions and laboratories, such as WABIOS (Waseda Bioscience Research Institute) and SCELSE (Singapore Centre for Environmental Life Sciences Engineering).

3. Technology and nature tours.

4. Campus tours to NUS and NTU.
IMPORTANT INFORMATION

Date: 23rd of June 2019 – 2nd of July 2019.
Fee: USD 2,300 | Early Bird: USD 2,200
Early Bird applies to registration before 16th February 2019

Includes: Research programs and activities, accommodation, meal (breakfast), transportation.
Excludes: Flight ticket*, meal allowance (lunch and dinner), other extra expenses during stay in Singapore, entrance fees to tourist areas, visa arrangement (if you plan to stay more than 30 days in Singapore).

*Flight ticket arrangement is available upon request.

ELIGIBILITY

• High school Student (Year 9 – 12 / Sec 3 - 4 / JC 1 - 2).
• Students with background and interest in Biology and/or Chemistry.

TO APPLY

• E-mail us at scienceresearch@all-inedu.com or WA/phone call at +62818 0808 1363
• Initial expression of interests will be followed by formal registration, documents signing and initial deposit of 50% would be required.

Due to the nature of the program, only limited spots are available on first-come-first-serve basis. Once spots are filled, registration is closed, only waitlists will be available.
“The ability to try a university-grade laboratory environment compared to a high school laboratory differs immensely. The content provided in the lessons were informative and kept students intrigued. Even the equipment themselves cannot be found in common high school labs. Before the program, my interests were still unclear. Now, I am more keen in this field of work.”
- Patricia, Springfield

“This program helped me in exploring career fields that I might interested in. Now, I know the feeling of being a scientist or a person who works in a lab.”
- KEZIA LAUREN, SMAK 1 Jakarta

“The most meaningful experience was to actually work as a scientist during the program. Another was the NTU’s tour as it showed me some hard topics such as how a gene can be read using very expensive and highly complex equipment. This program showed me that taking science could lead me to become a researcher like the ones in SCELSE or A Star.”
- DAVE, IPEKA Integrated Christian School

“Taking part in ALL-in’s ‘Voyage to the Depth of Science’ was an educational yet thrilling experience for me. The one-week long program really helped me narrow down possible career choices that I would like to pursue and gave me a glimpse to what working in lab or as a scientist feels like.”
- KHIARA, Santa Ursula Jakarta

*Flight ticket arrangement is available upon request.*
In this program, students will develop deeper understanding in physical sciences, technology & engineering, with emphasis on robotics and renewable energy as automation and energy crisis have been the major issues of 21st century. Students will also experience the real-world applications of such advanced technologies.
Participants will all stay in a modern and comfortable student accommodation, under our team supervision for the duration of the trip. Activities include:

1. Five-day hands-on workshop at CRADLΣ (the Centre for Research and Applied Learning in Science) for the robotic camp and renewable energy workshops on solar cell and fuel cell.
   - Build an X-Y robot arm from scratch, learn programming languages (Python on the Arduino Uno and the Raspberry Pi) and basic computer vision software and routines to control the self-assembled robot arm.
   - Experiment with clean energy technologies, such as Proton Exchange Membrane (PEM) fuel cell, and assemble your own organic solar cell.
   - Learn aerodynamics and material science, and use 3D printer to make your own drone.

2. Visits to world-class research institutions and laboratories, such as SERIS (Solar Energy Research Institute of Singapore) and Rolls-Royce Corporate Lab.

3. Technology tour and witness exciting engineering projects such as Singapore’s greenest building and reclaimed water factory.

4. Campus tours to NUS, NTU and SUTD.

**ITINERARY OVERVIEW**

![Science Centre](Image)

![SERIS](Image)

![NUS Campus](Image)
IMPORTANT INFORMATION

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Early Bird applies to registration before 16th February 2019

Includes: Research programs and activities, accommodation, meal (breakfast), transportation.
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ELIGIBILITY

• High school Student (Year 9 – 12 / Sec 3 - 4 / JC 1 - 2).
• Students with background and interest in Biology and/or Chemistry.

TO APPLY

• E-mail us at scienceresearch@all-inedu.com or WA/phone call at +62818 0808 1363
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WHAT STUDENTS SAY

“I believe that the program has helped me a lot in terms of being able to experience first hand the job of being a robot programmer/scientist that specializes in technological breakthroughs as well as what development is like. This gave me an overview of what I can expect if I picked Computer Science as a major in University.”
- ANDREW, Binus Simprug

“To me the most interesting activity is when we went to the rolls-Royce lab because I could see how people work in lab and the real machine (the motor, etc) they use. The trip to fusionopolis is also really fun as I saw a lot of things that we don’t even have in Indonesia. This program also taught me how to be more responsible and independent.”
- WYNOLA, SMAN 34 Jakarta

“I really enjoyed the camp because it was very interesting, and the material taught to us was very useful and practical. I learned a lot of new things such as programming, using industrial grade robots, and using more complex lab equipment. The most interesting thing for me was visiting the labs because the equipment they used are very new to me.”
- EDSON, ACS Jakarta

“This [program] gave us some insight of the life of researchers and students in solving some problems they currently face. Furthermore, I am able to learn more about the simple development of organic solar cell and fuel cell, topics which I am unable to do experiments of at school.”
- HARTANTO, SMAK 1 Bandung
ECLIPSE

A two-weeks program to develop deeper understanding in physical sciences, life sciences, technology and engineering, with emphasis on robotics, renewable energy, genetic recombinant and DNA forensics. This program will suit those who are interested in both physical and life science, or those who wish to get exposure to both fields.
Participants will all stay in a modern and comfortable student accommodation, under our team supervision for the duration of the trip. Activities include:

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   - Learn PCR, DNA purification, bacteria transformation, agarose gel electrophoresis, and blue/white screening.
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3. Visits to world-class research institutions and laboratories, such as WABIOS (Waseda Bioscience Research Institute), SCELSE (Singapore Centre for Environmental Life Sciences Engineering), SERIS (Solar Energy Research Institute of Singapore), and Rolls-Royce Corporate Lab.

4. Technology tour and witness exciting engineering projects such as Singapore’s greenest building and reclaimed water factory.

5. Campus tours to NUS, NTU and SUTD.
IMPORTANT INFORMATION

Fee: USD 3,200 | Early Bird USD 3,000
Early Bird applies to registration before 16th February 2019

Includes: Research programs and activities, accommodation, meal (breakfast), transportation.

Excludes: Flight ticket*, meal allowance (lunch and dinner), other extra expenses during stay in Singapore, entrance fees to tourist areas, visa arrangement (if you plan to stay more than 30 days in Singapore).

*Flight ticket arrangement is available upon request.

ELIGIBILITY

• High school Student (Year 9 – 12 / Sec 3 - 4 / JC 1 - 2).
• Students with background and interest in Biology and/or Chemistry.

TO APPLY

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A two-weeks program to develop deeper understanding in physical sciences, life sciences, technology and engineering, with emphasis on robotics, renewable energy, genetic recombinant and DNA forensics. This program will suit those who are interested in both physical and life science, or those who wish to get exposure to both fields.
WORK EXPERIENCE PROGRAM
ENCOMPASSES 3 SCOPES:

JOB SHADOWING
Students will shadow a mentor to learn about the scope and the nature of work of the profession

ENGINEERING PROJECTS
Students will work on a pre-determined engineering project and submit a deliverable at the end of the attachment

RESEARCH PROJECTS
Students will assist in a section of a pre-determined research project and submit a deliverable at the end of the attachment


IMPORTANT INFORMATION
Fee: USD 3,000

Includes: Research programs and activities, accommodation, meal (breakfast), transportation.
Excludes: Flight ticket*, meal allowance (lunch and dinner), other extra expenses during stay in Singapore, entrance fees to tourist areas, visa arrangement (if you plan to stay more than 30 days in Singapore).

*Flight ticket arrangement is available upon request.
ELIGIBILITY

- High school Student (Year 9 – 12 / Sec 3 - 4 / JC 1 - 2).
- Students with background and interest in Biology and/or Chemistry.

REQUIREMENTS

- High school Student (Year 10 – 12 / JC1 – JC2)
- Transcript from Year 9 onwards and a 200-words note to demonstrate your passion in Science
- Students with background in Math and/or Physics

TO APPLY

- Send a copy of your transcript from Year 9 onwards and a 200-words note about your passion in Science with your name, grade, high school, email address and phone number to scienceresearch@all-inedu.com.

- Application decisions are made on a rolling, first-come, first-served basis. Once an application is complete, it takes approximately one week for a decision to be made. Shortlisted candidates will be notified by email.

NEXT STEP AFTER ADMISSION

- Once you are admitted to the program, you will complete a registration, waiver, release forms and other administrative details.

- Due to the high number of applicants and the selective process, such documents and payment should be completed within 7 business days after receiving your admission letter, failing which your offer will be revoked and be given to the next person.
“I learned much more than I had expected, and I even somewhat feel proud of myself what I have achieved for the past 2 weeks. It seems like being an engineer was much more challenging than I thought it would be: learning how to use chips, looking at datasheets and circuits, making everything so perfect as well. But, thanks to the Work Experience Program, I think I could manage myself in the engineering society much better than before.”

-KIM YOON SEONG, Singapore International School Jakarta

“This program is nothing like anything I have ever enrolled or experienced in the past. The concept of the program itself is much needed by highschool students. It would be wrong for me to deny the times where I have felt a bit lost and confused in the process, however it does not eliminate the joy and fulfillment I get from working to pursue something I care about. The two weeks also gives me a chance to practice skills that I might not be given the opportunity and resources to outside of the program. All the new tools and equipment that were being introduced to us was especially useful. What I take away the most is the ability to drive myself out of my comfort zone for the sake of pushing my limits from both the academic and real-life side of things.”

-SOPHIE, Singapore International School Jakarta
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ALL PROGRAMS ARE IN COLLABORATION WITH:

National University of Singapore
Nanyang Technological University
SCELSE
DNA Learning Lab
Cradl
Zero Energy Building
NewWater
FusionWorld
Ministry of Education
Solar Energy Research Institute of Singapore
Rolls-Royce
NKF