



# BIOTECHNOLOGY

## BACHELOR'S PROGRAM



*Improving the Quality of Life*



Indonesia International Institute for Life Sciences [i3L] is a globally connected research and education institution that impacts the society through science and innovation. In the BioTechnology program at i3L, interdisciplinary education and innovations are directed to enhance quality of life via the production of valuable products from Indonesian biodiversity. This program offers a broad content which nurtures well-rounded graduates to become leaders in various fields of biotechnology.

## BioTechnology Uniqueness

### Boundless Opportunities



Our interdisciplinary curriculum allows you to explore and identify your passion.

Tap into the vast opportunities in various fields of biotechnology: medical, food, agriculture, environment, and energy.

### Vast and Strong Global Network



Our strategic collaborations with top national and international universities, research institutes, companies, community groups, and government open up many doors for the future of our students.

### Practical Real-World Experience



Gain real research experience through internships and student research programs.

Apply your knowledge and skills to develop your own innovative biotechnology solutions.



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## STUDY PROGRAM AT A GLANCE



Accredited UNGGUL by Lembaga Akreditasi Mandiri Sains Alam dan Ilmu Formal [LAMSAMA]

### ● Faculty Members Graduated from Top Global Universities



- |             |               |
|-------------|---------------|
| ■ Canada    | ■ Netherlands |
| ■ Indonesia | ■ UK          |
| ■ Singapore | ■ USA         |
| ■ Australia | ■ Japan       |

### ● What is Biotechnology ?



The manipulation and use of living systems and organisms to manufacture products or solve problems for human benefit.

### ● Textbooks provided for major subjects

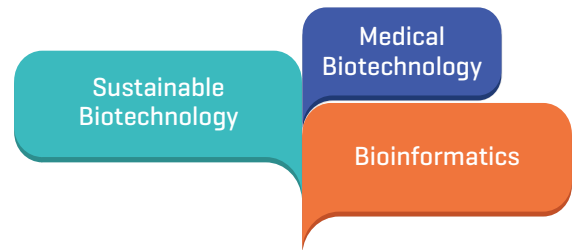


### ● Internship

# 100%

of our students secured their internship placements at overseas [Singapore, Malaysia, China, Japan, Thailand, & South Korea] and local/International companies/research institutes.

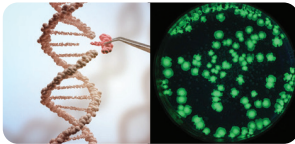
### ● Our Streamings





## BioTechnology

### ● Skills & Knowledge Acquired



#### Genetic Engineering

Manipulating genetic make up of organisms to improve their characteristics.



#### Cell Culture

Growing cells outside of living organisms.



#### Bioprocessing Technology

Using living systems or its components to manufacture desired products at a commercially viable scale.

### ● Partners







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# INTERNATIONAL PROGRAMS

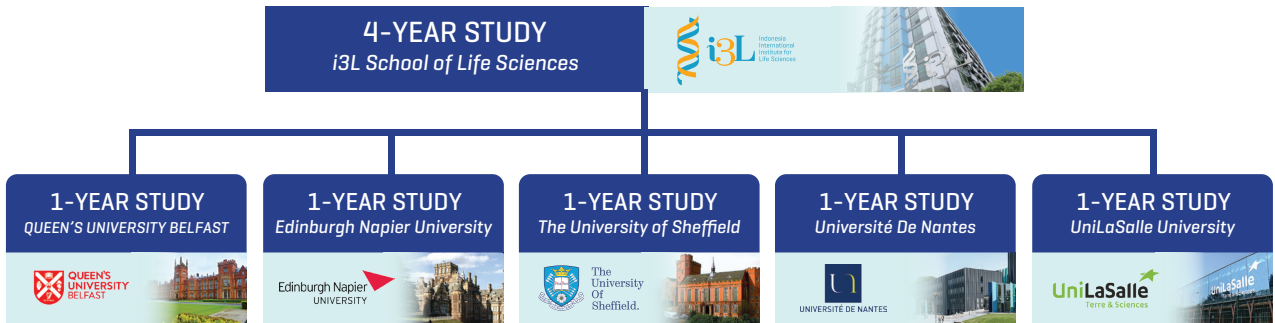
FOSTERING SKILLS & CONFIDENCE FOR SUCCESSFUL GLOBAL CAREERS

## DOUBLE DEGREE

Double Degree with UCSI University, Malaysia



## MASTER'S PATHWAY





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# INTERNATIONAL MOBILITY (IISMA AWARDEE)



  
**Richelle Bertly Josefano**  
Cohort 2020  
University of Pennsylvania,  
USA



  
**고려대학교**  
KOREA UNIVERSITY  
**Erlyn Budiono**  
Cohort 2019  
Korea University, Korea



  
**THE UNIVERSITY OF  
MELBOURNE**  
**Bianca Lianto**  
Cohort 2020  
University of Melbourne,  
Australia



  
**THE UNIVERSITY OF  
BRITISH COLUMBIA**  
**Reza Hanun Alyaa**  
Cohort 2019  
University of British  
Columbia, Canada



  
**THE UNIVERSITY  
OF QUEENSLAND**  
AUSTRALIA  
**Beatrice Miranda Japri**  
Cohort 2020  
The University of Queensland,  
Australia



  
**National  
Taiwan  
University**  
**Hilbert Siauwanda**  
Cohort 2020  
National Taiwan University,  
Taiwan



  
**UNIVERSITÀ  
DEGLI STUDI  
DI PADOVA**  
**Gde Andika Mahardika Rai**  
Cohort 2020  
University of Padua, Italy



  
**Maastricht University**  
**Eileen Wijaya**  
Cohort 2020  
Maastricht University,  
Netherlands



  
**Maastricht University**  
**Nandana Bayu Abhista**  
Cohort 2021  
Maastricht University,  
Netherlands



  
**THE UNIVERSITY OF  
BRITISH COLUMBIA**  
**Tifara Elaine Trisna**  
Cohort 2019  
University of British  
Columbia, Canada



  
**SZTE UNIVERSITY  
OF SZEGED  
HUNGARY**  
**Hennie**  
Cohort 2018  
University of Szeged, Hungary



  
**THE UNIVERSITY OF  
BRITISH COLUMBIA**  
**Michelle Clarissa Tjondro**  
Cohort 2020  
University of British  
Columbia, Canada



  
**Tasya Alifya Rizal**  
Cohort 2018  
Prince of Songkla University,  
Thailand



**UNIVERSITY  
OF TWENTE.**  
**Priscilla Angelique**  
Cohort 2021  
University of Twente,  
Netherlands



  
**UNIVERSITÁS  
PECSI**  
**Prasheena Harilela**  
Cohort 2018  
University of Pecs, Hungary



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# INTERNATIONAL INTERNSHIPS AND THESIS PLACEMENTS



**Stephanie Audrey Victoria**

Internship at Nanyang Technological University, School of Chemical and Biomedical Engineering, Singapore



**Tifara Elaine Trisna**

Thesis at University of Tokyo, Japan



**Jyotsna Jai**

Thesis at The Hong Kong University of Science and Technology [HKUST], Hong Kong



**Ernest Christian**

Internship at Tokyo University of Agriculture and Technology, Japan



**Ignasius Edwin Ciputra**

Thesis at UCSI University, Malaysia



**Eric Bernardus Lili Sandjaja**

Internship at Hokkaido University, Japan



**Dominika Dwi Veridianti**

Internship at Teikyo University, Japan



**Flavia Nadine, Edrick Theo, Ignasius Edwin Ciputra & Reza Hanun Alyaa**

Thesis at UCSI University, Malaysia



**Jovanka Sheryn Tritanti & Jessica Renata Wijaya T.**

Thesis at National Ilan University, Taiwan



**Alif Hokuto Abe**

Thesis at Mahidol University, Thailand



**Laurentius Hardy Kurniawan**

Thesis at National Changhua University of Education, Taiwan



**Agnes Maria Rosaceae**

Thesis at Tamkang University, Taiwan



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## ACHIEVEMENTS



First place at the *White Paper Competition* at Industrial Workshop 2020, held by Universitas Gadjah Mada



Gold Medal & Best Poster at *Bioinformatics and Synthetic Biology (BIOS) Competition* 2021 held by Synbio.id



Reza Hanun Alyaa & Tifara Elaine  
Cohort 2018  
IISMA Awardees to University of British Columbia, Canada



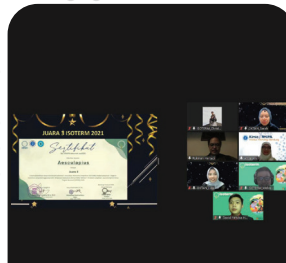
Richelle Bertly Josefano  
Cohort 2020  
Amgen Scholarship 2022  
Recipient to National University of Singapore.



1st and 2nd winners of *Pfizer Biotech Fellowship Competition* 2021



Three i3L students won the *Green Track L'Oreal Brandstrom* 2022, advancing to the international round representing Indonesia.



Three students students won 3rd place at *Karya Tulis Ilmiah Indonesia's Innovative Research Competition (ISOTERM)* at ITB.



Richelle Rahardja  
Cohort 2020  
*Future Research Talent Award*  
Recipient from Australian National University

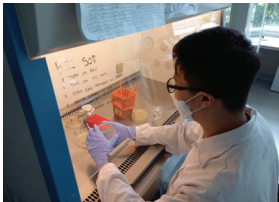


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### ● Career Paths

- **Industry Professionals:** Quality Control and Quality Assurance, Research and Development, Vaccine Development, Product Development, Business Development, Laboratory Product, Molecular Biologist, Microbiology Quality Control
- **Scientists/Academia:** Research/Laboratory Specialists, University Professionals
- **Entrepreneurs:** Biotechnology Start-Ups, Patent Developers

#### Scientists/Academia



#### Industry Professionals



#### Entrepreneurs



### ● Companies Looking for Biotechnology Experts

#### Medicine



#### Food & Agriculture



#### Energy & Chemical



#### Animal Husbandry







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## TESTIMONIALS



**Clara Angela**

*Alumna of Biotechnology 2015*

*Sales Reps | Key Account Manager at Sartorius Stedim Biotech, Singapore*



My study at i3L was full of fruitful experiences and exposure. The teaching and learning activities took place not only in class and lab, but also through multiple company visits and international internships. I was fortunate enough to gain valuable experiences mentored by renowned scientists during my credited internship and thesis project in Thailand and Sweden. Moreover, the lecturers at i3L were also very helpful and supportive that my friends and I managed to get the PKM Dikti Research grant in 2019. All these experiences and of course the theories taught in class have prepared me well for my current career in the biopharmaceutical industry.



**Inge Kumalasari Sudibjo**

*Alumna of Biotechnology 2015*

*Production Supervisor PT. Kalbio Global Medika*



Spending my college years as an i3L student has been truly a priceless experience for me. Aside from the hard skills which were a must-earn during in-class and field studies, lab sessions, and internship; soft skills that were developed naturally through exposure to a wide range of activities [both academic and non-academic] have become a special asset of mine in adapting quickly in the workplace and excelling further professionally



**Dellamartha Anjani**

*Alumna of Biotechnology 2015*

*Application Specialist at PT Sysmex Indonesia*



It has been a memorable experience having i3l as my second home for the past four years. This campus has provided me with high standard education and a lot of hands-on lab experiences which are highly relevant to my current job. Aside from learning, I've also had the best time joining student clubs and communities as well as CSR activities. I'm surely going to miss my time at i3L.



**Fedric Intan Damai**

*Alumnus of Biotechnology 2018*

*Business Development Officer PT. Kalbe Farma, Tbk.*



i3L provides their student a comprehensive theoretical aspect of Biotechnology, supported with complete laboratory facilities and equipment. Together with the supportive environment and expert lecturers, multiple opportunities were seized with valuable hands-on experiences that made the learning process at i3L enjoyable.





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## TESTIMONIALS



**Gabriella Devina Tirta**

*Alumna of Biotechnology 2018*

*LPDP Scholarship Awardee - Master of Biotechnology at Melbourne University*



i3L had given me the chances to grow my career as a biotechnologist, providing the best study environment and relevant courses that supports the study program. Their faculty is very helpful in guiding my studies, encouraging me to join competitions, research, and other activities that sharpen both my academic & soft skills. I seized multiple opportunities; publishing a scientific journal at an international level, conducting research with an internal grant, and participating in DIKTI & Talenta Inovasi grant from the government. More soft skills were honed by being active in competitions, organizations, and communities within i3L. Everyone, including the amazing college friends, were enhancing my study period into a more valuable experience. Joining i3L will let you seize the opportunity to grow your CV with quality achievements.



**Davin Saviro Wijaya**

*Alumnus of Biotechnology 2017*

*ANU University Research Scholarship - Ph.D., Research School of Biology, Plant Sciences Major at Australian National University*



I am very grateful for my time at i3L where engaging lecturers in many courses have built a solid scientific-thinking foundation, while practical laboratory courses have given me ample experience to perform well in research. Aside from the academics, the i3L community also provided me with many social activities and project opportunities for me to further grow as an individual and a researcher. My study at i3L have truly prepared me for my current responsibilities, and I am proud to be an i3L alumnus.



**Sean Alexander Bastaman Limas**

*Alumnus of Biotechnology 2017*

*Masters in Organic Agriculture & Food Systems at Universitat Hohenheim*



Studying in i3L was one of the best times in my life. The campus provided exceptional faculties, top-notch laboratory facilities, supportive staff, and most importantly, caring friends. While doing my master's degree, I realized how i3L's curriculum is practical-oriented and helped me to conduct research better. I am proud to be an alumnus of i3L.



**Suvanna Visakha Wu**

*Alumna of Biotechnology 2016*


*CNRS Funding - Ph.D. of Process and Bioprocess Engineering at Nantes Université*






i3L did not only provide us with intensive laboratory sessions and up-to-date biotechnology advances but the faculty and staff members there also encouraged us to participate in real job experiences, even international ones. During the time I spent at i3L, both the academic and the student activities allowed me to grow as a scientist and as a person. I am well-guided. Thank you i3L!



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