Words from our Graduates

I am honestly having a taste of career opportunities and competing in many aspects, from the engineers at Shell to the competitors in the games industry. At NUS Biomedical Engineering, I really do develop a strong passion in healthcare. It is exciting and fulfilling to see big systems working together. In this context, the NUS Biomedical Engineering programme really helped me fulfill my dream and career development for my professional career.

Allen Yu Deng, Class of 2012
Graduate Management, Eakin Healthcare

The undergraduate programme at NUS Biomedical Engineering gave me a broad-based education on engineering and biology. The rigorous curriculum in biology, engineering, mathematics, statistics, and physics
The course has really prepared me well for my studies.ollo, in the future I also want to pursue a career in the field of medical research.

David Ng Ken Sheng, Class of 2017
Nursing Science

The small size of the cohort ranks favourably for the profession to get to know their students better and for fellow students to also know one another well.

Gracia Poh, Class of 2013
Manufacturing Engineering
Beller Endowed Marshall Scholar

BIOMEDICAL ENGINEERING
Nurturing Holistic Engineers, Impacting Lives

PROGRAMME ENQUIRIES

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What is Biomedical Engineering?

Biomedical engineering integrates the principles of engineering disciplines with biomedical sciences to enhance knowledge and achieve leadership in research through the development of novel technologies and innovative applications.

We help engineers with the ability to analyze problems from both engineering and biomedical perspectives. We advance scientific discovery and develop new technologies through cutting-edge research and integrated education. By examining clinical phenomena and formulating our research to the inference, we improve diagnosis and drug-app.

Programme

The MUI Biomedical Engineering programme aims to develop engineers who will be able to analyze problems from both engineering and biomedical sciences perspectives.

Students will be educated on the fundamentals and methodologies in electrical, mechanical, medical and related engineering, with a focus on their application to biomedical problems. This would enable our students to have both the foundation and vocabulary to develop effective and practical solutions relating to human health.

The course also includes case studies:
- Design-based and research-based projects aimed at promoting creativity, innovative thinking, research planning, and application of theories.
- Analytical problem solving and its methodological skills in tackling challenging problems in industry or research.
- Professionalism and ethics in engineering, legal and regulatory affairs.
- Field-based skills in leadership, teamwork, and management.

During the course, students will be exposed to various areas in the field of biomedical engineering, such as:

Career Prospects

MUI Biomedical Engineering graduates can look forward to joining the medical device and biotechnology industries, healthcare settings, research facilities, government agencies and universities.

Beyond engineering, a significant part of the curriculum is also set aside for non-engineering domains such as management, entrepreneurship, national policies, and regulatory affairs. Our graduates have also been in demand in: aerospace, petrochemical, defence, aviation, civil engineering, project management, product development and maintenance.

With the increasing requirement for students to be well-equipped to explore careers in various areas of biomedical engineering, our students have enjoyed considerable success in obtaining prestigious graduate programmes across a wide range of biomedical science-related disciplines, including medicine.