# ADDOBSONS ADDOBSONS ADDOBSONS 2024/6 PROSPECTUS

All courses are accepting applications until July 31

# **Research Beyond Boundaries**





## **STUDY IN ESWATINI,** THE KINGDOM OF EXCELLENCE





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### X Centre for Post Graduate Studies





### SPRINGFIELD RESEARCH UNIVERSITY: UNLEASHING POSSIBILITIES

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At Springfield Research University, we understand that the world is undergoing a scientific and technological revolution that is transforming the way we live, work, and play. With exponential growth and rapid changes in the fields of STEMM and technology-based entrepreneurship, it is essential for governments and institutions of higher learning to prepare human capital for an economically active society driven by the need for industrialisation and modernisation through STEMM.

To bridge this gap, a viable transformation of countries' education systems requires realignment of processes and procedures of systems to a competency-based education and training. Education systems that produce intellectuals and administrative elites who rely on traditional truisms are out of touch with global trends, and will not yield sustainable industrialisation.

At Springfield Research University, we believe the outcomes of empirical research in higher and tertiary education should propagate an increase in inventions and innovations that are commercially exploitable to address the community requirements for rapid industrialisation and modernisation. The inventions and innovations should translate to an increase in registration of intellectual property through



patents, copyrights, and utility models, among others, for the creation of entrepreneurs and enterprise.

Our programs embrace emerging technologies such as nanotechnology, information communication technology, energy-based technologies, biotechnology, space sciences, health and medical sciences, and indigenous knowledge systems. These innovations contribute significantly towards sustainable development of nations.

At Springfield Research University, we invite you to unlock the possibilities of a brighter future. With our commitment to excellence, we strive to empower our students to become the innovators, entrepreneurs, and leaders of tomorrow.

Sincerely,

### Dr. Godfrey Gandawa, PhD President, Springfield Research University

Springfield Research University, Knowledge Park I, Examinations Council of Eswatini, Ngonini Road, Mlalatini – Ezulwini Valley, Ezulwini, Kingdom of Eswatini

> Springfield Research University Postal Box D61, The Gables Ezulwini, H126, Kingdom of Eswatini

Springfield Legal Clinic, Suite 8, 1st Floor, The Gables, Ezulwini, Kingdom of Eswatini







### SPRINGFIELD RESEARCH UNIVERSITY WWW.SPRINGFIELD RESEARCH.UNIVERSITY

# IMAGINE. BELIEVE. ACHIEVE.



## NOW ACCEPTING APPLICANTS

### **Our courses:**

We offer a wide array of courses, including Chemical Engineering, Robotics, Dental Science, Molecular Biology and Biotechnology, and Computer Science, to name a few.

### **Contact us:**

Telephone: +268-2417 1634 Telephone: +268-2417-1000 Mobile/WhatsApp: +268-76192898

info@springfieldresearch.university

## Study at Springfield



The Springfield Research University is dedicated to creating opportunities and transforming industry, business and communities. Our mission is to provide high-level instruction and cultivate skills in research, innovation, technology, engineering, management and the humanities. We strive to equip our students with the knowledge and expertise needed to become successful professionals, civic leaders and lifelong learners. Our programs are available in full-time, part-time, block release, blended style, online and independent study formats.



### **ENTRY REQUIREMENTS**

**Bachelor's Degree:** The student must have 6 passes in SGCSE/GCE/IGCSE O' level, including a pass with Grade C or higher in English Language and at least four other subjects or A' Level.

Arts Degrees: History, English Literature, Economics, Business Studies, Accounting, Design and Technology, Food and Nutrition, Sociology, Religious Studies, Siswati and Geography.

Science subjects degrees require math other from and two agriculture/geography, biology, chemistry, combined science, physics, physical science, or human and social biology. Mature entry requirements may be established by the faculty with Senate approval.

In order to enroll in a postgraduate program, a student must have either an appropriate undergraduate degree in a relevant master's area of interest or another qualification deemed sufficient by the Senate. Master's degree is a prerequisite for admission to the PhD program.

## SADC STUDENT SCHOLARSHIPS



### 25 FULL DEGREE SCHOLARSHIPS FOR TOP STRAIGHT-A STUDENTS

Springfield Research University is dedicated to empowering and providing opportunities and resources to young people who distinguish themselves academically. If you are a high school student who aced your final exams, we invite you to apply for one of our 25 full undergraduate degree scholarships. These awards are based on an open comparison of your highest qualifications and grade, and are without-condition scholarships. Don't miss your chance to benefit from a full university education - apply now!

### **100 PARTIAL SCHOLARSHIPS**

One hundred partial scholarships are available for undergraduate students in need based on academic performance. These scholarships cover 60% of tuition fees and are granted under the following conditions:

A minimum grade of 80% must be achieved and maintained in all core and elective subjects. Failure to meet this will result in withdrawal of the scholarship

These conditions will ensure that the partial scholarships are awarded to those who demonstrate outstanding academic performance.

### **MRES/PHD SCHOLARSHIPS**

Candidates with first-class undergraduate degrees may be eligible for a 50% scholarship for Masters by Research. Additionally, 20 full PhD scholarships are available for those with research interests in new and emerging technologies in the Science and Engineering fields.





## FIVE FACULTIES

Faculty of Engineering and Electronics

Faculty of Health and Medical Sciences

Faculty of Science (Agricultural and Earth)



## FOUR INSTITUTES

**Springfield Sports Academy** 

**The STEMM Academy** 

Springfield Legal Aid Clinic

**Springfield Biomedical Center** 

Faculty of Business and Education

Faculty of Arts and Law

#### FOR MORE INFORMATION AND ADMISSIONS, CONTACT:

EMAIL: INFO@SPRINGFIELDRESEARCH.UNIVERSITY OR FRONTDESK@SPRINGFIELDRESEARCH.UNIVERSITY WHATSAPP: +268-76192898 TELEPHONE: +268-24171634/+268 24171000 P. O. BOX D61, EZULWINI, KINGDOM OF ESWATINI, H126 Faculty of Arts and Law

The Faculty of Arts and Law at the Springfield Research University offers a wide range of courses and programs, including history, literature, philosophy, linguistics, sociology, anthropology, law,

### and more.

Our faculty is dedicated to providing a stimulating and supportive learning environment that encourages students to explore their interests and develop their skills. We strive to create an atmosphere of inclusivity and respect, and are committed to providing our students with the best possible education.

## Bachelor of Arts – Psychology



The Psychological Science major at SRU is designed to equip students with the knowledge and skills to conduct empirical research in the fields of social and cognitive psychology, and to apply their findings to real-world settings. We strive to provide a comprehensive understanding of human experience, thought, and behaviour, from conception to death, from the most aberrant to the most common, from the behaviour of neurons to the actions of nations and societies. Our program emphasizes the use of controlled experiments to gain insight into behavior and develop effective strategies to optimize



performance.

### **CAREER OPPORTUNITIES**

Graduates of behavioural science programmes are prepared for a wide range of careers in the health and business sectors, such as counselling and human services, public relations and advertising, mental health facilities, and marketing research firms. Potential roles include behavioural scientist, career counsellor, counsellor, behavioural therapist, victim advocate, family therapist, psychiatric technician, clinical supervisor, mental health case manager, school/educational psychologist, psychiatric nurse, speech pathologist, clinical psychologist, and human resources specialist.

These roles offer a wealth of opportunities to make a positive impact on people's lives, as well as to contribute to the development of the business world. With the right qualifications and experience, behavioural science graduates can find rewarding and fulfilling careers in a variety of fields.

## Bachelor of Arts – Sociology



### **MISSION STATEMENT**

The Sociology major at SRU focuses on the study of human behaviour, thought, and experience from conception to death. We emphasise empirical research in the fields of social and cognitive sociology, as well as practical applications to the classroom, the courtroom, and other settings. Through the use of controlled experiments on human subjects, we strive to understand behavior and develop strategies to improve performance. Our goal is to provide students with the skills and knowledge to make meaningful contributions to society.

### **CAREER OPPORTUNITIES**

The Sociology major at SRU provides students with the skills and knowledge to make meaningful contributions to society. Successful completion of the program will equip students for a variety of careers, including those in business and industry, community and social services, research, and education and extension services.

For those interested in business and industry, the major can open up opportunities such as Human Resources Representative, Marketing Research Analyst, and Management Consultant. HR Representatives are responsible for recruiting, interviewing, and hiring new employees, while Marketing Research Analysts help companies better understand their target market and develop effective strategies. Management Consultants are hired to help organizations improve their operations and efficiency.

Those looking to work in community and social services can pursue careers such as Social Worker, Probation Officer, and Guidance Counsellor. Social Workers provide support and assistance to individuals and families, while Probation Officers are responsible for monitoring and supervising offenders in the community.

## Bachelor of Arts - Political Science and Governance



### **MISSION STATEMENT**

The BA in Political Science and Governance provides students with the necessary skills to excel in the fields of management, humanities, civic and leadership. This programme is suitable for those entering postsecondary education, as well as those who may already possess certificates and diplomas. It equips students with an understanding of the workings of governmental, judicial and legal structures and processes, as well as those of the political, civic and media spheres. Topics such as environmental policy, cyber security and science and technology policy are covered at local, SADC and global levels.

On completion of the programme, graduates will be well-equipped to deal with issues relating to political culture and socialisation, political participation, the media, social movements and minority politics, interest groups and political parties, the operation of governments and the application of law. Professional opportunities include positions in international organizations, law firms, state and federal governments, and non-profits.

### **CAREER OPPORTUNITIES**

The BA in Political Science and Governance provides the necessary management, humanities, civic and leadership skills to those entering postsecondary education for the first time, as well as those who already possess certificates and diplomas. Upon completion of the programme, students are equipped to pursue a range of professional opportunities in international organizations, law firms, state and federal governments, and nonprofits.

These opportunities include roles such as Political Scientist, Civil Service Fast Streamer, Government Social Researcher Officer, Policy Officer, Political Risk Analyst, Politician's Assistant, Public Affairs Consultant, Local Government Officer, Diplomatic Service Officer, Environmental Officer, and Cyber Security and Media Policy Analyst.

## Bachelor of Social Science – Military and Police Studies



### **MISSION STATEMENT**

The SRU military and police science degree offers two distinct options: military studies and police studies. Through the military studies track, students will gain an in-depth understanding of warfare, defence, and diplomacy, as well as the latest cutting-edge weaponry. The police studies track, meanwhile, provides a comprehensive grounding in the social sciences, with a focus on law enforcement, criminal justice, social science, and political science.

The course offers an invaluable opportunity to learn the ins and outs of policing and how to apply this knowledge in the real world. Students will

develop the skills to think critically and analytically, as well as gain an understanding of the ethical considerations that underpin military and police operations. Ultimately, the degree equips graduates with the knowledge and expertise to make a positive contribution to society.

### **CAREER OPPORTUNITIES**

Students majoring in Military and Police Studies are equipped for a range of careers in law enforcement, including risk management, legal studies, sociology, psychology, criminology, public policy, and security. Job opportunities include policy officer, case manager, emergency relief officer/coordinator, community corrections, prison service, probation officer, parole officer, public sector organisations, community and non-government organisations, private companies, and human resource management. Military roles include engineers, infantry, armor, aviation, field artillery, air defence artillery, signal corps, cyber corps, military intelligence, chemical corps, ordnance corps, finance, transportation, military police, adjutant general, quartermaster, and nursing. Officers may work as leaders/managers, specialists, or in other roles.

## Bachelor of Arts and Bachelor of Laws – Integrated



### **MISSION STATEMENT**

The Bachelor of Arts and Bachelor of Laws (B.A. LLB) is an integrated five-year program that combines the study of Arts subjects such as Political Science, Economics, and Sociology with specialized fields of law, including Tax Laws, Criminal Laws, and Corporate Laws. This dual degree professional course is designed to equip students with the skills and knowledge necessary to excel in their chosen career paths. During the first three years of the program, students will focus primarily on Arts subjects, with fewer LLB subjects. However, by the end of the five-year program, they will have gained an in-depth understanding of both Arts and Law subjects. Graduates of the B.A. LLB program enjoy a wide range of career opportunities in a variety of industries. The B.A. LLB program is designed to provide students with the skills and knowledge necessary to succeed in their chosen professional paths. With the help of experienced faculty and industry-leading resources, students will gain the expertise needed to excel in the legal field. Additionally, they will gain the ability to think critically, analyze complex legal issues, and develop the communication skills necessary to succeed in the workplace.

### **CAREER OPPORTUNITIES**

Litigating lawyers are a popular career choice for those graduating with a BA LLB degree from Springfield Research University. These professionals are responsible for representing clients in court, conducting legal research and drafting legal documents. They also provide advice on legal matters and handle negotiations. With the right skills and experience, litigating lawyers may also become judges or prosecutors.Legal managers and consultants are also in demand for those graduating with a BA LLB degree. These professionals are responsible for managing legal departments, providing legal advice and developing strategies for their clients. They may also be called upon to provide advice on corporate law, compliance and governance. Additionally, they may act as legal liaising officers, helping to resolve conflicts and negotiate deals. They may be called upon to provide advice on a variety of matters, such as business strategy, public policy, and social issues. With the right skills and experience, they may even become policy advisors or government officials. Finally, corporate lawyers are a great option for those with a BA LLB degree. These professionals are responsible for providing legal advice to businesses and helping them to navigate the complex legal landscape. They may be involved in contract negotiations, drafting legal documents, and advising on mergers and acquisitions. With the right skills and experience, they may also act as legal advisors, helping businesses to make informed decisions.





### **MISSION STATEMENT**

The Master of Law (LLM) is a highly sought-after postgraduate degree with international recognition. It requires a one-year, full-time program for completion. LLMs are pursued by law students and legal practitioners to gain expertise in a specialized field, such as Corporate and Commercial Law, Criminal Law, Constitutional and Administrative Law and International Law. This advanced, specialized legal training is attractive to employers and can help lawyers succeed in a global legal environment.

The LLM is a great choice for career advancement and international credibility. It is sought by those in the early and mid stages of their careers, and can help them gain expertise in a particular field of law. The time and money spent on an LLM is worth it, as it allows lawyers to explore the complexities of the law. It can give those just starting out a competitive edge, while more experienced attorneys can use it to make a career change or expand their practice to serve clients internationally.

### **CAREER OPPORTUNITIES**

LLM graduates looking to work in the public sector have a range of career options, such as Advocate, Notary, Law Reporter, Legal Manager, Legal Counsel, Public Prosecutor, Magistrate, Legal Advisor, Legal Expert, Law Officer, Legal Reporter, Oath Commissioner, Law Teacher, Process Flow Analyst, Legal Head, and Legal Assistant.

These roles offer a great opportunity to utilise the advanced, specialised legal training acquired through the LLM.

# Master of Arts – National and Homeland Security



### **MISSION STATEMENT**

The Master of Arts in National and Homeland Security program at SRU equips students with the knowledge and skills to identify, design, and mobilize the appropriate resources to prevent, deter, pre-empt, defend against, and respond to terrorist attacks and other critical incidents and emergencies. Students will learn to assess risks, develop plans and strategies to mitigate them, and understand the legal and ethical considerations of national and homeland security.

The program also provides an in-depth look at the legal and ethical considerations of national and homeland security. Students will gain an

understanding of the laws and regulations that govern the security landscape, as well as the ethical considerations that must be taken into account when making decisions. The program will also equip students with the communication and leadership skills necessary to effectively coordinate and lead teams in times of crisis.

### **CAREER OPPORTUNITIES**

The Master of Arts in National and Homeland Security program at SRU provides a range of career opportunities for graduates. Research Investigators, Risk & Reliability Analysts, Experiment Designers, and Power Systems & Electrical Engineers are just some of the positions available. Other roles include Mechanical Engineering, Control Systems Cybersecurity Analysis, Industrial Cybersecurity, Cybersecurity Researcher, and Probabilistic Risk Methods and Analysis Specialist.

The program also provides graduates with the skills and knowledge to pursue careers in the public sector, such as government agencies, law enforcement, and military services.

## Master of Arts – International Relations and Diplomacy



### **MISSION STATEMENT**

The Master of Arts in International Relations and Diplomacy (MIRD) program equips young professionals with the knowledge and skills to pursue positions of decision-making in international organisations, diplomatic services, and the private sector.

The program focuses on foreign policy and geoeconomics, the global economy, and economic diplomacy, as well as international trade organisations, statistics, communication, negotiation, and the use of multimedia and the internet. Students will gain the skills to analyse and interpret global events, understand the implications of international relations, and develop strategies to effectively manage international affairs.

### **CAREER OPPORTUNITIES**

The Master of Arts in International Relations and Diplomacy (MIRD) program provides students with the knowledge and skills to pursue a range of careers in international organizations, diplomatic services, journalism, NGO monitoring, foreign policy think tanks, and academic research.

The curriculum focuses on the political, cultural, legal, and socio-economic practices that shape our increasingly interdependent and complex world, while also emphasizing problem-solving, structural analysis, project development, and management. The program takes an interdisciplinary approach, drawing on economics, law, history, philosophy, and theology to provide a comprehensive understanding of international relations. Graduates are equipped to analyse and interpret global events, understand the implications of international relations, and develop strategies to effectively manage international affairs.

# FACULTY OF BUSINESS AND EDUCATION

The Faculty of Business and Education at Springfield Research University is an exemplary institution that stands out for its commitment to excellence and its commitment to providing students with the highest quality education.

This faculty is committed to rigorous academic standards, innovative research and teaching, and providing students with the skills and knowledge necessary to succeed in the modern business

world.

The faculty is committed to creating an environment of respect and inclusion, where students from all backgrounds can learn and grow. The faculty also promotes the highest values of the field, such as ethical leadership, responsible decisionmaking, and global awareness.

With its commitment to excellence, the Faculty of Business and Education at Springfield Research University is an outstanding choice for those seeking a quality education.

## Bachelor of Business Administration – Supply Chain Management and Logistics



### MISSION STATEMENT

The mission of Springfield Research University's actuarial science and financial mathematics degree is to equip graduates to apply analytical, statistical, and mathematical skills to financial and business problems. This is especially valuable when facing problems involving uncertain future events or financial risks in insurance, retirement, investments, and risk management environments. Actuarial scientists commonly known as actuaries are trained to use mathematics, statistics and the principles of economics and finance to analyze the financial costs of risk and uncertainty. The degree equips students of actuarial science with skills in the fundamental and practical tools they will need to work in the complicated field of financial risk and become the next generation of risk specialists. The graduates will be able to build models that determine the likelihood of numerous risk factors that every business and organization faces.

### **CAREER OPPORTUNITIES**

Actuarial science graduates and actuaries can work in a variety of fields, including the insurance industry, as actuarial consultants, business analysts, risk analysts, underwriters, investment analysts and post-secondary teachers. A degree in actuarial science can prepare the graduate for a variety of career paths that involve analyzing data and helping businesses manage risk. For example, several actuarial science graduates and actuaries work in the insurance industry as insurance actuarial analyst, where they use their statistical skills and knowledge to design and price insurance policies, considering a complex set of factors. As actuarial risks, and as underwriters, they determine whether to accept applications for insurance coverage by considering the risks involved in protecting the policy holder based on factors such as age, health, and occupation.

## Bachelor of Business Management - Entrepreneurship



### **MISSION STATEMENT**

The mission of SRU's Business Management program in Entrepreneurship is to empower aspiring entrepreneurs to identify opportunities, develop innovative solutions, and create positive social change. We strive to bridge the gap between theory and practice, equipping our students with the knowledge and skills necessary to become successful, impactful leaders. Our program is dedicated to inspiring, motivating, and developing entrepreneurial minds from a variety of backgrounds, so that they can confidently pursue their dreams and make a lasting difference in the world.

Our program provides students with the resources and support needed to launch their own businesses, as well as the opportunity to gain valuable insight into the entrepreneurial process. We believe that through our comprehensive curriculum and hands-on learning experiences, our students will be well-equipped to succeed in the ever-evolving business landscape. We are committed to helping our students realize their potential and become the next generation of innovative, socially conscious entrepreneurs.

### **CAREER OPPORTUNITIES**

Graduates of SRU's Bachelor of Business Management: Entrepreneurship program are well-equipped to pursue a variety of career paths, including administrative service manager, management analyst, business consultant, sales representative, purchasing manager, small business owner, social and community manager, operations manager, research and development, notfor-profit fundraiser, teacher, recruiter, and business reporter.

## Bachelor of Science - Actuarial Science and Financial Mathematics



### **MISSION STATEMENT**

The mission of Springfield Research University's actuarial science and financial mathematics degree is to equip graduates to apply analytical, statistical, and mathematical skills to financial and business problems. This is especially valuable when facing problems involving uncertain future events or financial risks in insurance, retirement, investments, and risk management environments. Actuarial scientists commonly known as actuaries are trained to use mathematics, statistics and the principles of economics and finance to analyze the financial costs of risk and uncertainty. The degree equips students of actuarial science with skills in the fundamental and practical tools they will need to work in the complicated field of financial risk and become the next generation of risk specialists. The graduates will be able to build models that determine the likelihood of numerous risk factors that every business and organization face.

### **CAREER OPPORTUNITIES**

Actuarial science graduates and actuaries can work in a variety of fields, including the insurance industry, as actuarial consultants, business analysts, risk analysts, underwriters, investment analysts and post-secondary teachers. A degree in actuarial science can prepare the graduate for a variety of career paths that involve analyzing data and helping businesses manage risk. For example, several actuarial science graduates and actuaries work in the insurance industry as insurance actuarial analyst, where they use their statistical skills and knowledge to design and price insurance policies, considering a complex set of factors. As actuarial risks, and as underwriters, they determine whether to accept applications for insurance coverage by considering the risks involved in protecting the policy holder based on factors such as age, health, and occupation.

## Bachelor of Commerce - Banking and Investment Management



### **MISSION STATEMENT**

The mission of Springfield Research University's banking and investment management degree is to equip graduates to operate responsibly and successfully in the general banking, private banking, investment banking and the investment management environment. The program at Springfield aims to provide graduates with strong research skills and the ability to advance knowledge in the field of banking and investment management. It emphasizes competence, integrity, and ethical application in a professional environment. The students gain a global investment perspective and an indepth understanding of the global and local marketplace, giving them a competitive advantage for employment.

### **CAREER OPPORTUNITIES**

Students graduating in banking and investment have open to them a wide range of career choices including private and commercial banking, asset management, corporate finance, financial planning, investment banking, money management, life insurance, research and planning, retirement funding and real estate among others. Some of the popular career paths include trade finance professional, financial manager, risk manager, and investment banking sales agent. There are several other career roles in investment banking, including analyst, associate, vice president, and various specialized roles in areas like mergers and acquisitions, sales and trading, equity research, and risk management.

## Bachelor of Science – Financial Mathematics and Applied Statistics



### **MISSION STATEMENT**

SRU's degree in financial mathematics and applied statistics is dedicated to providing students with the knowledge and skills necessary to excel in the world of quantitative finance. Our program equips graduates with a comprehensive understanding of mathematics, statistics, statistical and computational techniques, as well as a background in economics, finance, and public policy.

Our mission is to empower students to become experts in the field of quantitative finance, enabling them to make informed decisions and have a positive impact on the global economy. Through our program, we strive to provide students with the tools and resources necessary to succeed in their chosen field.

### **CAREER OPPORTUNITIES**

The financial mathematics and applied statistics program at SRU provides students with a variety of career opportunities. Graduates of this program can pursue a career in corporate banking, corporate finance, financial planning, investment banking, money management, and real estate. In addition, this program is an excellent choice for students who wish to pursue graduate studies.

Our program equips students with the skills and knowledge necessary to excel in the world of quantitative finance. Our graduates have the ability to make informed decisions and have a positive impact on the global economy. With the right tools and resources, our students are well-prepared to pursue a successful career in the field of finance.

## Bachelor of Science – Computer Science



### **MISSION STATEMENT**

The Bachelor of Science in Computer Science (BSc-CS) is a four-year degree program that provides students with the fundamentals of computing, including algorithmic study and the history of the field.

Students will be equipped to design and create complex algorithmic software and develop efficient algorithms for solving computing problems. The program also covers the standards and practices in Software Engineering, preparing students to acquire the skills and disciplines necessary for designing, writing, and modifying software components, modules, and applications.

<image>

The BSc-CS program offers three specialization tracks: Core Computer Science, Game Development, and Data Science. The Core Computer Science track covers topics in traditional areas of Computer Science not covered in the required courses. It is designed to prepare students for graduate school and research by introducing and exploring different areas of computer science.

The Game Development track allows students to demonstrate their artistic and technical skills by developing a 2D or 3D game with commercial potential.

The Data Science track provides students with the mathematical analysis and professional programming and development skills needed to design and implement novel approaches to problems important to the development of existing industries and to the nation as a whole.

By completing the BSc-CS program, students will be well-equipped to pursue advanced studies and research in computing and the decision sciences, as well as to enter the workforce with the necessary skills to succeed.



### **CAREER OPPORTUNITIES**

A degree in computer science can open up a world of career opportunities. Software engineering, systems software development, research and development computing, application software development, computer programming, and systems analysis are all popular fields. Quality assurance specialists, software support specialists, computing researchers, and computing solution providers are also in demand. Additionally, intelligent systems engineers, computer designers, game developers, game programmers, game production engineers, game quality assurance specialists, and game testers are all highly sought after.

Data scientists and data engineers are also in high demand, as the need for data-driven solutions continues to grow. With a degree in computer science, you can also pursue careers in artificial intelligence, machine learning, computer vision, robotics, and natural language processing. The possibilities are endless, as the field of computer science is constantly evolving.

In addition to the traditional career paths, there are also many emerging opportunities in the field of computer science. From blockchain and cloud

computing to virtual reality and augmented reality, the possibilities are endless. As technology continues to advance, so too do the opportunities for those with a degree in computer science. With the right skills and knowledge, you can be at the forefront of the digital revolution.

> Analytical Engine Difference Engine Charles Babbage Mechanical Calculator Analytical Engine Cards Punch Cards Jacquard Cards Jacquard Weaving Arithmetic Logic Unit Ada Lovelace

## Bachelor of Education - Biological Sciences



### **MISSION STATEMENT**

The Bachelor of Education with Honors in Biological Sciences at SRU is designed to prepare students to become effective teachers in secondary schools, with a focus on GCE Advanced Level courses in biology and chemistry. Our mission is to provide our students with the knowledge and skills necessary to become successful educators in the biological sciences.

Our program emphasizes the importance of providing students with a strong foundation in the biological sciences, including the fundamentals of biochemistry, genetics, ecology, and evolution. We also emphasize the importance of developing effective teaching strategies and techniques, as well as the ability to assess student learning. Our faculty members are highly experienced and knowledgeable in the field, and are dedicated to providing our students with the best possible education.

We strive to create an environment that is conducive to learning, and our curriculum is designed to challenge and engage our students. Our courses are designed to provide students with the opportunity to develop their skills in critical thinking, problem solving, and communication. We also offer a variety of experiential learning opportunities, such as field trips and laboratory work, to help our students gain a deeper understanding of the biological sciences.

At SRU, we are committed to providing our students with the highest quality education in the biological sciences. Our goal is to produce teachers who are knowledgeable, skilled, and passionate about teaching the biological sciences. We are dedicated to helping our students become successful educators and inspiring the next generation of scientists.



### **CAREER OPPORTUNITIES**

The Bachelor of Education with Honors in Biological Sciences at SRU provides graduates with the opportunity to pursue a variety of career paths. Graduates may find employment in positions where a bachelor's degree (Hons) is the minimum requirement, such as a Biology Teacher, Chemistry Teacher, Forensic Biologist, Cytotechnologist, Medical Technologist, Biotechnologist, Biochemist, or Business Biologist.

Those interested in pursuing an academic career may choose to enroll in either a Masters of Education (M.Ed.) or Masters of Philosophy (M. Phil.) program. Graduates may also choose to pursue a career in research, where they can use their knowledge and skills to make significant contributions to the field of biological sciences.

Additionally, graduates may choose to pursue a career in the private sector, where they can use their knowledge and skills to develop new products and services. This could include working in the biotechnology, pharmaceutical, or healthcare industries.

No matter which career path they choose, graduates of the Bachelor of Education with Honors in Biological Sciences at SRU will be wellprepared to make a positive impact in the field of biological sciences.



## Bachelor of Education – Computer Science Education



### **MISSION STATEMENT**

The SRU Bachelor of Education in Computer Science Education program is dedicated to providing our students with the knowledge and skills to become outstanding educators in the field of computer science and information technology.

We strive to empower our graduates to confidently and effectively instruct and inspire the next generation of computer science and technology professionals. Our program focuses on developing our students' understanding of computer science fundamentals, emerging technologies, and best practices in teaching and learning.

Through our rigorous curriculum, we strive to equip our graduates with the skills and knowledge to be successful in the classroom and to become leaders in the field of computer science education.

### **CAREER OPPORTUNITIES**

**High School Computer Science Teacher:** Our graduates can teach computer science and IT in high schools. They can teach computer science principles, upcoming technologies, and optimal teaching and learning practises.

**Secondary School Consultant:** Our graduates can help schools build and implement computer science and IT programmes. They know the current industry trends. Secondary

**Curriculum Coordinator:** Our graduates can create and manage secondary school computer science and IT courses. They may design engaging and effective curricula for the school and pupils. They also know the current industry trends.

## Bachelor of Education - Physical Sciences



### **MISSION STATEMENT**

The Bachelor of Education (Hons) in Physical Sciences program at SRU is dedicated to preparing teachers with the skills and knowledge to teach Physics and Mathematics in secondary schools, including G.C.E Advanced Level classes. Our program is designed to equip graduates with the necessary competencies to effectively teach these subjects in a way that engages and inspires students.

Our program focuses on providing teachers with the appropriate methods to teach Physics and Mathematics. We strive to ensure that our graduates are able to effectively communicate and demonstrate their knowledge of the subject matter in a way that is meaningful and engaging for their students. We also emphasize the importance of providing a safe and supportive learning environment for students to explore and develop their understanding of the physical sciences.

At SRU, we are committed to providing our students with the best possible education in the

physical sciences. We strive to create an atmosphere of learning that is both stimulating and rewarding for our graduates. We believe that our graduates will be able to use their knowledge and skills to make a positive impact in their classrooms and in their communities.

### **CAREER OPPORTUNITIES**

A Bachelor of Education in Physical Sciences opens up a wide range of career opportunities for graduates. Those with an undergraduate (Hons) degree in this field are highly sought after by both the public and private sectors due to the medium of instruction being English. For those who wish to pursue a career as an academic, there is the possibility of enrolling in a Masters' in Education (M.Ed.) or Masters' in Philosophy (M. Phil.) programme.

The most common career paths for those with a Bachelor of Education in Physical Sciences are as a Physics Teacher, Physical Science Teacher, Physical Scientist, Research Technician, Water Resources Technician, Field Geology Technician, Environmental Scientist, Atmospheric Scientist, Geoscientist, and Material Scientist. These roles involve teaching students about the physical sciences, conducting research, and developing new technologies related to the physical sciences.

Other career opportunities include working as a laboratory technician, quality control technician, engineering technician, and industrial hygienist. These roles involve working with scientists and engineers to develop and test products, processes, and materials. Additionally, graduates may find work in the field of environmental science, working to protect and preserve natural resources. With the increasing demand for renewable energy sources, graduates may also find work in the field of renewable energy engineering, developing and implementing new technologies to reduce energy consumption and increase efficiency.

## Master of Business Administration – Health Management



### **MISSION STATEMENT**

The SRU MBA in Healthcare Management is committed to providing students with the knowledge and skills necessary to become successful healthcare administrators. Our program emphasizes the importance of strategic governance in healthcare institutions and environments, with a focus on clinical governance. We strive to equip our students with the tools to evaluate current health practices and make evidence-based decisions.

The MBA in Healthcare Management also covers the major aspects of public health issues, health policy, and the role of the public in shaping health policies. Our program emphasises the need for ethical decision-making and the importance of understanding the organisational culture of healthcare institutions. We aim to help our students develop the skills to assess the effectiveness of healthcare services and policies.

At SRU, we are dedicated to providing our students with the best education in healthcare management. Our program is designed to equip our students with the knowledge and expertise

necessary to become successful healthcare administrators and leaders. We strive to instill in our students a commitment to ethical decision-making and an understanding of the accountability framework of healthcare governance.

### **CAREER OPPORTUNITIES**

Hospital administrators are responsible for the efficient running of healthcare facilities, such as hospitals, nursing homes, and outpatient centers. This requires strong project management skills, along with a background in finance, business, and marketing. An MBA in healthcare is an excellent background for this job. Practice managers, on the other hand, are responsible for the operation of smaller medical offices. They may eventually move into consulting or to a position at a larger medical organization.

Hospital CEOs are responsible for directing, planning, and organizing all operations of the hospital. This includes making a hospital budget, negotiating contracts with outside vendors, analyzing sales reports and financial information, and selecting personnel for top positions in the hospital. They will usually report to a board of directors for major decisions. Healthcare consultants, with an MBA, work with client companies to do organizational studies and evaluations. They design new systems and procedures, and prepare manuals to help healthcare clients manage their organization in a more effective fashion.

Finally, health information managers work in hospitals, medical practices, or other healthcare facilities to manage the information flow. They ensure that all data is delivered in an efficient fashion to the right areas of the organization, and that all computer hardware and software is up to date and processing information accurately. Pharmaceutical project managers, with an MBA and marketing experience, can use that experience to help pharmaceutical firms achieve their goals.

### Master of Business Administration – Modern

![](_page_31_Picture_1.jpeg)

### **MISSION STATEMENT**

SRU's Master of Business Administration (MBA) program is dedicated to teaching the principles and practice of strategic management and leadership in the business environment. Our MBA program emphasizes the importance of strategic governance and leadership, with a focus on key areas such as business policy, models and governance, organisational culture, ethical issues, and more. We strive to equip our students with the knowledge and skills to evaluate current business practices, assess strategic effectiveness, and make evidence-based decisions.

In addition, our MBA program provides a comprehensive overview of public management issues, business policy, and the role of the public in shaping business and economic policies. We believe that effective leaders must understand the complexities of the business world and be able to make informed decisions that are in the best interest of their organization.

At SRU, we are committed to providing our students with the necessary tools and resources to become successful business leaders. Our MBA program is designed to equip students with the

skills and knowledge needed to succeed in the modern business world.

### **CAREER OPPORTUNITIES**

The Master of Business Administration – Modern degree opens up a wide range of career opportunities. Chief Executives are responsible for the overall management and leadership of an organisation, while Brand Managers are responsible for the development and implementation of marketing strategies. Product Managers oversee the development and launch of new products, while Market Research Analysts use data to identify and evaluate customer needs. Media Planners develop and execute media plans that promote products and services.

Digital Marketing Managers are responsible for developing and managing digital marketing campaigns, while Retail Managers oversee the daily operations of a retail store. Marketing Executives create and implement marketing plans to increase sales and market share, while Department Managers are responsible for the management of a specific department within an organisation. Store Managers are responsible for the overall management of a retail store, including customer service, sales, and inventory management.

In addition to these roles, there are a variety of other career opportunities available to those with a Master of Business Administration – Modern degree. These include Business Consultants, Financial Analysts, Human Resources Managers, Project Managers, and Entrepreneurs. With the right degree and experience, these roles can open up a world of opportunities for those looking to take their career to the next level.

# Master of Education with Specialisations

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### **MISSION STATEMENT**

The mission of SRU's Master of Education program is to equip students with the knowledge and skills to become effective and successful educators. Our program provides students with the opportunity to gain an in-depth understanding of educational research and its application to classroom practice. Our goal is to help students create positive learning environments for their students, fostering a sense of belonging, mastery, generosity, and independence. The Master of Education has four specializations namely, Education Policy and Leadership, Special Needs Education, Elementary Teaching Education and Intermediate Teaching Education.

Our program is designed to develop educators who are reflective practitioners and critical thinkers. We strive to empower our students to become leaders in their field, capable of making informed decisions that are based on research and evidence. Our program emphasizes the importance of collaboration and communication among educators, administrators, and other stakeholders in order to create an effective learning environment.

At SRU, we believe that education is the cornerstone of a successful society. We are committed to providing our students with the skills and knowledge necessary to ensure that their students are given the best possible education. Our program is designed to equip our students with the tools to become successful educators and to create positive learning environments for their students.

### **CAREER OPPORTUNITIES**

A Master of Education with Specializations can open up a variety of career opportunities in the field of education. For those looking to become a leader in the field, a position as a principal may be a great fit. Special education teachers can use their knowledge and skills to help students with special needs reach their full potential. Career counsellors help students make informed decisions about their future, while education consultants provide guidance to schools and other organizations.

Curriculum developers create lesson plans and other materials for use in classrooms, while instructional design and technology specialists develop and implement technology-based learning solutions. Educational administrators are responsible for overseeing the day-to-day operations of a school, while corporate trainers provide professional development opportunities to employees. Finally, those with a Master of Education with Specializations may also find success as researchers, policy makers, or even authors.

No matter the career path chosen, those with a Master of Education with Specializations will be well-prepared to make a lasting impact in the field of education. With the right combination of knowledge, skills, and experience, they can help shape the future of education.

## Master of Science – Digital Marketing & Media

![](_page_33_Picture_1.jpeg)

### **MISSION STATEMENT**

SRU's Digital Marketing and Media programme is dedicated to equipping marketers and business leaders with the necessary digital skills to thrive in the modern world. Our mission is to produce the best digital marketers on the continent, capable of using digital marketing and media technology to achieve business goals. Our program provides participants with the knowledge and understanding to not only be aware of digital marketing and media, but to apply these skills in a practical and effective way.

We strive to provide our students with the most up-to-date digital marketing and media tools, techniques and strategies. Our curriculum is designed to help our students stay ahead of the curve, giving them the ability to create innovative solutions and strategies to meet any challenge. We also provide our students with the necessary skills to effectively manage digital campaigns, ensuring that their efforts are successful and efficient.

At SRU, we believe that digital marketing and media are essential to the success of any

business. Our mission is to help our students become well-rounded digital marketers with the skills and knowledge to make an impact in their field. We are committed to providing our students with the resources and support they need to excel in the digital marketing and media landscape.

### **CAREER OPPORTUNITIES**

The Master of Science in Digital Marketing & Media opens up a wide range of career opportunities in the creative and digital media industries. Animator/Designer, Art Director, Artivist, Assistant Designer, Associate Designer, Brand Designer, Concept Artist, Design Apprentice, Design Assistant, Design Associate, Design Coordinator, Design Director, Designer, Director of Communication, Fashion Design Assistant, Freelance Motion Designer, Graphic Designer, Illustrator, Image Tech, Interior Design Assistant, Interior Designer.

Those with a technical background may find positions such as Architect, Architectural & Interior Designer, Broadcast Production Coordinator, Civil Agent TR GR, Co-owner, and Senior Graphic Designer. These positions require knowledge of software and hardware, as well as an understanding of the principles of design and animation.

Finally, those with a combination of technical and creative skills may be well-suited for positions such as Director, Social Media Coordinator, and Associate Sculptor. These jobs require a strong understanding of both design and technology, as well as the ability to create engaging content for digital platforms. With the right qualifications and experience, these roles can lead to a rewarding career in the digital marketing and media industry.

# FACULTY OF SCIENCE AGRICULTURAL & EARTH

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The Faculty of Science (Agricultural and Earth) at Springfield Research University offers a wide range of courses and programs to meet the needs of our students.

Our courses are designed to give students a comprehensive understanding of the natural environment and its interactions with human activities. Our faculty members are experts in their fields and provide students with the latest research and knowledge.

Join us and gain the skills necessary to succeed in your chosen field.

Faculty of Science (Agricultural and Earth)
# Bachelor of Science - Forest Science

#### **MISSION STATEMENT**

SRU's forest science program sets out to empower graduates with the knowledge and skills needed to effectively manage forest resources.

Our comprehensive curriculum combines core science courses with management, commerce, and technology, providing a well-rounded education that prepares students for success in the forestry industry.

Our program offers a structured pathway to success, with prerequisite courses in biology and forestry sciences, as well as advanced courses in forestry and business. With our program, you will develop the expertise to thrive in this growing field.

#### **CAREER OPPORTUNITIES**

Land Conservation Specialists develop and implement conservation programs for public or private landowners to improve forest or land restoration efforts. Consulting Foresters offer advice and services to private land owners about sale of forestland, landscape planning, pest control, timber stand improvement, wildlife management, and timber sales. Environmental Biologists conduct on-site research in their specialty field, as well as develop wildlife management strategies and environmental conservation efforts.

Extension Agents develop and deliver educational programs to assist with economic and community development, leadership, agriculture, and environmental issues. Certified Foresters assess forests for timber sale, wildlife management, pest management, economic viability, and landowner goals. Service Foresters conduct wildlife and natural resource management, enforce local and national laws, develop and implement educational programs, fight forest fires, and provide emergency response when needed.

Timberland Appraisers and Procurers appraise, buy, and sell trees, forests, and forestland. Wetlands Specialists improve and maintain water resource cleanliness, implement remediation projects, monitor and analyse wetland data, collect soil samples, track aquatic life, survey wetlands, and write reports. Forestry Technicians conduct harvest preparation, reforestation, tree stand care, erosion control, and habitat improvement. Forest Management Specialists execute timber surveys, develop and maintain forest maps, analyse wildfire statistics, coordinate fire control, and provide technical consulting with industry and government. Research Foresters, Planning Foresters, and Harvesting Foresters also play important roles in the forestry industry.

### Bachelor of Science -Veterinary and Wildlife Science



SRU's Bachelor of Science in Veterinary and Wildlife Science is dedicated to providing students with the knowledge and skills necessary to become successful and responsible professionals in the field of veterinary and wildlife science. We strive to create a learning environment that is both academically rigorous and experiential, with an emphasis on the interdisciplinary nature of the field.

Our mission is to provide students with a comprehensive understanding of the complex biological, ecological, and ethical issues associated with veterinary and wildlife science. We strive to foster an appreciation for the importance of animal health, conservation, and sustainability, and to equip our students with the tools to make a positive impact on their communities.

At SRU, we believe that the best way to prepare our students for a successful career in veterinary and wildlife science is to provide them with hands-on, real-world experience. We strive to provide our students with the opportunity to observe and interact with wildlife in their natural habitats, to gain experience in animal health practices, and to develop the skills necessary to become successful professionals in the field. We are committed to creating an environment of collaboration and learning, and to helping our students become the leaders of tomorrow.

#### **CAREER OPPORTUNITIES**

SRU Veterinary and Wildlife Science (Honours) graduates are highly sought after for their diverse skills and dedication to animal health. With this degree, they can work as a veterinarian in many countries, including veterinary clinics, hospitals, agricultural settings, biosecurity, quarantine, public health, zoos, and wildlife sanctuaries. Additionally, many graduates pursue research in clinical care, animal science, pharmacology, and biomedicine.

The program provides a comprehensive education that prepares graduates for a successful career in the field. It also equips graduates with the skills to make a positive impact on animal welfare through their work. Furthermore, graduates are able to use their knowledge to promote animal health and safety in their communities.

### Bachelor of Science - Chemistry



#### **MISSION STATEMENT**

The Chemistry program at SRU is committed to providing students with the knowledge and skills necessary to become responsible scientists and scientifically literate professionals.

We strive to create an environment that encourages exploration and creativity, while also emphasising the importance of ethical and responsible practices. Our program is designed to equip students with the tools to understand the complexities of the global chemical enterprise and to develop the skills to apply their knowledge in a variety of contexts.

We focus on providing rigorous instruction in the fundamentals of chemistry, while also engaging students in the latest research and technological advances. We nurture a passion for chemistry, while

also fostering an appreciation for its relevance to our lives.

Through our program, we strive to develop a generation of wellrounded chemists who are capable of making meaningful contributions to society.

#### **CAREER OPPORTUNITIES**

This program's graduates have many public and private sector job opportunities. Agricultural Chemist, Air Pollution Monitor, Assayer, Chemical Analyst, Chemical Engineer, Chemical Information Specialist, Chemist, Chemical Oceanographer, Chemical Safety Officer, Chemical Technician, Clinical Data Analyst, Clinical Research Associate, Clinical Research Coordinator, Clinical Technician, Consumer Advocate, Crime Lab Assistant, DNA Analyst, Energy Engineer, Energy Policy Analyst, Energy Researcher.

Chemistry, biochemistry, and related disciplines offer research opportunities. These include government lab, university, and private company jobs. Research involves creating new items, testing old ones, analysing data, and creating new technology. Pharmaceuticals, food and beverage, energy, and environmental sciences offer many industry jobs. These jobs may entail production, product development, or quality control. Medical jobs include laboratory technician and clinical research associate.

### Bachelor of Science - Molecular Biology and Biotechnology



#### **MISSION STATEMENT**

The mission of the Bachelor of Science in Molecular Biology and Biotechnology at SRU is to equip students with the knowledge and skills necessary to become successful professionals in the life sciences. Our degree program provides an interdisciplinary approach to the study of molecular biology and biotechnology, with a focus on health and food practices, as well as global issues. Our curriculum combines traditional classroom instruction with fieldwork and laboratory-based learning, so that our students gain a comprehensive understanding of topics such as omic science, cell biology, biochemistry, genetics, immunology, microbiology, molecular biology, and plant physiology.

In addition to the classroom experience, our students will have the opportunity to engage in fieldwork in health practices and natural habitats involving wildlife populations. Through this hands-on experience, students will gain a deeper understanding of the topics they are studying and gain valuable insight into the real-world applications of molecular biology and biotechnology. Our faculty will provide mentoring and guidance to ensure that our students are well-prepared to enter the job market and make an impact in their chosen field.

At SRU, we are committed to providing our students with a comprehensive education in molecular biology and biotechnology. We strive to create an environment that fosters learning, collaboration, and innovation, so that our students can become leaders in the life sciences. Through our rigorous curriculum, fieldwork opportunities, and mentorship, we are dedicated to providing our students with the tools they need to make a difference in the world.

#### **CAREER OPPORTUNITIES**

Students graduating with a Bachelor of Science in Molecular Biology and Biotechnology from SRU have a wide range of career opportunities available to them. They can pursue positions in medical laboratories, the veterinary industry, the pharmaceutical industry, biomedical engineering, the agricultural industry, product manufacturing and production, nutritional biotechnology, bioinformatics, forensic investigations, and marine biotechnology.

In addition to these traditional career paths, graduates may also find opportunities in emerging fields such as synthetic biology, nanotechnology, and personalized medicine. With the help of our faculty and career services, our students will be well-prepared to take advantage of the many opportunities available in the life sciences. Our graduates will be equipped with the knowledge and skills necessary to pursue successful and rewarding careers in the field of molecular biology and biotechnology.

### Master of Science – Tropical Veterinary Science



#### **MISSION STATEMENT**

The mission of SRU's Masters in Tropical Veterinary Science is to provide an advanced education in the field of veterinary science, with a special focus on the tropics and its unique challenges. Our program is designed to equip students with the theoretical and practical knowledge and skills necessary to become successful professionals in the field.

We strive to create an environment of learning and discovery, where students are encouraged to think critically and develop their own unique solutions to the challenges posed by the tropical environment. Our faculty members are dedicated to providing a comprehensive education that covers the latest research and trends in the field, and to fostering a culture of innovation and collaboration.

We are committed to preparing our students to be leaders in the field of

Tropical Veterinary Science, with the skills and knowledge to make a positive impact on the lives of animals and people around the world. Our program is designed to provide a comprehensive, interdisciplinary education that prepares graduates to become successful professionals in the field.

#### **CAREER OPPORTUNITIES**

The Master of Science in Tropical Veterinary Science offers a unique opportunity for veterinarians to upskill and increase their knowledge of tropical veterinary diseases, their diagnosis, prevention and control. This degree can open the door to a range of career opportunities, from advancing one's current career in the veterinary field to pursuing a research or academic career.

Veterinarians working in academia, government veterinary services, herd health and aquaculture can benefit from the degree, as it provides the skills necessary to practice in tropical environments. Additionally, the degree can provide entry into PhD studies, allowing graduates to pursue a research or academic career.

Those with a general interest in tropical veterinary medicine can also benefit from the degree, as it provides a comprehensive overview of the field. Graduates will be equipped with the knowledge and skills necessary to work in a variety of tropical veterinary settings, such as in research, academia, or the veterinary field. The degree can also provide the opportunity to pursue a PhD and a career in research or academia.

### Master of Science – Regenerative Medicine and Entrepreneurship (MS-RME)



The Master of Science in Regenerative Medicine and Entrepreneurship (MS-RME) program at SRU is dedicated to providing students with the knowledge and skills necessary to become leaders in the field of regenerative medicine and cell-based therapy. Our two-year master's-level program provides students with access to the latest clinical and research facilities, small biotechnology companies, and bonafide leaders in the field.

Our curriculum is designed to provide students with the skills and knowledge needed to succeed in a variety of settings, including academic, commercial, and clinical. Students will learn about cellular manufacturing, biotechnology innovation, legal compliance, financial analysis, venture capital, and business development activities.

At SRU, we strive to provide our students with the tools and resources needed to become successful innovators in regenerative medicine and cell-based therapy. We are committed to helping our students gain the knowledge and skills necessary to make an impact in the field and to become leaders in their chosen profession.



#### **CAREER OPPORTUNITIES**

The Master of Science in Regenerative Medicine and Entrepreneurship (MS-RME) provides students with the opportunity to develop the skills and knowledge needed to solve modern regenerative medicine, commercial, and compliance problems within both individual business ventures and the marketplace. Through coursework in business and management, as well as advanced regenerative medicine, students will be able to gain the expertise necessary to tackle complex business problems with creative solutions.

In addition to the business-related skills and knowledge, MS-RME students will also focus on the cutting-edge research techniques and business practices needed to succeed in today's biomedical and translational science industries. This includes the development of emotional intelligence, teamwork, communication, creativity, and cultural awareness. With this well-rounded education, students will be able to apply their knowledge and skills to a variety of career paths in the regenerative medicine and entrepreneurship fields.

The MS-RME program also provides students with the opportunity to gain real-world experience through internships, research projects, and other experiential learning opportunities. This hands-on experience will give students the chance to apply their knowledge and skills in a practical setting, while also developing the professional networks and contacts needed to succeed in their chosen field. With the right combination of coursework, research, and experience, MS-RME students will be well-prepared to pursue a wide range of career paths in the regenerative medicine and entrepreneurship fields.



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The passing down of knowledge and wisdom from the old to the young is not only a responsibility

#### FACULTY OF HEALTH AND MEDICAL SCIENCES



### but a sacred obligation

For it is only through the transfer of information that we can hope to preserve the lessons of the past and ensure

a brighter future for all

### Bachelor of Medicine - Physician Assistant Studies (BM-PAS)



#### MISSION STATEMENT

The SRU Physician Assistant Program is dedicated to providing students with the knowledge and skills to become competent and compassionate healthcare providers.

We strive to provide a comprehensive education in the sciences and liberal arts that will enable our graduates to practice medicine with the highest ethical standards. We emphasize the importance of teamwork, communication, and professionalism in order to best serve our patients and the community.

Our program also seeks to foster an environment of lifelong learning, so that our graduates are able to stay abreast of the latest advancements in medicine. We are committed to preparing our graduates to become knowledgeable and caring healthcare professionals who are ready to serve their patients and their communities.

#### **CAREER OPPORTUNITIES**

The SRU Physician Assistant Program provides students with the opportunity to pursue a wide variety of career paths. Our graduates are prepared to practice in a variety of medical specialties, including orthopaedics, hospitalist medicine, cardiology, family practice, and neuromedicine. Our program also offers clinical rotations in these specialties, allowing students to gain hands-on experience in a variety of settings. Our graduates are well-prepared to pursue exciting and rewarding careers in the medical field.

We strive to provide our students with the knowledge and skills they need to succeed in their chosen career paths. Our graduates are equipped with the necessary skills to provide patient-centered care, while also demonstrating professionalism and ethical principles. Our program also provides our students with the opportunity to gain valuable experience in a variety of clinical settings. This experience is invaluable in helping our graduates to become knowledgeable and compassionate healthcare providers.



### Bachelor of Medicine – Dental Science (BM–DS)



The Bachelor of Medicine in Dental Science (BM-DS) program at SRU provides students with a comprehensive education in the sciences and liberal arts, equipping them with the necessary skills to provide quality patient-centered care. Our program emphasizes the importance of ethical principles, medical knowledge, and professionalism, and provides students with the tools to work effectively in interdisciplinary teams. Our curriculum is designed to help students develop the critical thinking and problem-solving skills needed to make informed decisions in the ever-evolving field of dentistry.

In addition, our program offers students the opportunity to learn from experienced faculty who are dedicated to providing an engaging and supportive learning environment. Through our online learning platform, students can access the latest technologies and resources to further enhance their education. We strive to provide students with the knowledge and skills needed to become successful professionals in the field of dentistry and contribute to the advancement of the profession.

#### **CAREER OPPORTUNITIES**

The dental profession offers a number of exciting and rewarding career opportunities to those with a Bachelor of Medicine in Dental Science (BM-DS) from Springfield Research University. Graduates can pursue a career in general or specialist dental practice, public sector dental health, the defence forces (Army or Air Force), hospital dental clinics, education and research. Starting salaries for dentists are among the highest graduate starting salaries nationally.

Additionally, those with a BM-DS degree are well-positioned to take advantage of emerging opportunities in the field. For example, the demand for dental hygienists is expected to grow between 2018 and 2028, and dental assistants are projected to experience a 7% increase in demand over the same period.

Finally, the need for dentists is expected to remain strong in the coming years, as the population of the continues to age and the demand for dental services increases. With a BM-DS degree from SRU, graduates can look forward to a bright and secure future in the dental profession.



## Bachelor of Medical Sci - Optometry



#### **MISSION STATEMENT**

The Bachelor of Medical Sciences in Optometry (BMS-Optometry) program at SRU provides students with the knowledge and skills needed to become successful optometrists. Our curriculum is designed to equip students with the necessary skills to practice optometry in a variety of settings, including urban, rural, and remote areas. We strive to provide students with the opportunity to develop a comprehensive understanding of the field of optometry, including the diagnosis and treatment of eye diseases, the fitting of corrective lenses, and the management of vision problems.

In addition, our program offers students the opportunity to learn from experienced faculty who are dedicated to providing an engaging and supportive learning environment. Through our online learning platform, students can access the latest technologies and resources to further enhance their education. We also provide students with the opportunity to gain hands-on experience in clinical settings, giving them the opportunity to apply their knowledge and skills in a real-world setting.

Our graduates are well-positioned to take advantage of the growing demand for optometrists. According to the Bureau of Labor Statistics, the employment of optometrists is projected to grow 7% from 2018 to 2028, faster than the average for all occupations. Additionally, optometrists are in high demand in rural and underserved areas, where access to eye care is limited. With a BMS-Optometry degree from SRU, graduates can look forward to a bright and secure future in the field of optometry.

#### **CAREER OPPORTUNITIES**

The field of optometry offers a wide range of career opportunities to those with a Bachelor of Medical Sciences in Optometry (BMS-Optometry) from SRU. Graduates can pursue a career as an eye doctor, optometrist, optician, sales executive, teacher, or any other related profession. Optometrists are in high demand in rural and underserved areas, where access to eye care is limited. Additionally, the demand for optometrists is expected to grow 7% from 2018 to 2028, faster than the average for all occupations.

In addition to traditional optometry roles, graduates can also pursue a career in research or academia. Those with a BMS-Optometry degree are wellpositioned to take advantage of emerging opportunities in the field, such as developing new treatments and technologies, or teaching optometry courses at the university level. With a BMS-Optometry degree from SRU, graduates can look forward to a bright and secure future in the field of optometry.



## Bachelor of Medical Sciences - Physiotherapy

#### **MISSION STATEMENT**

The SRU Bachelor of Medical Science in Physiotherapy program is committed to providing students with the highest quality of education, preparing them to become highly-skilled and compassionate physiotherapists. Our curriculum is designed to foster critical thinking and problem-solving skills, while instilling a deep understanding of the human body and its movement. We strive to equip our graduates with the tools to excel in their chosen field and to provide the best possible care to their patients.

Through our program, we strive to promote the highest standards of professional practice in the field of physiotherapy. We promote evidence-based practice, ethical decision-making, and lifelong learning, while fostering a sense of social responsibility and respect for diversity. Our graduates will be equipped to work in a variety of settings, including private practice, aged care facilities, private and public hospitals, workplaces, community-based organizations, schools, and clinics for chronic health management.

We are dedicated to providing a comprehensive and supportive learning environment, where students can develop their skills, knowledge, and confidence in order to become highly-skilled and compassionate physiotherapists. Our graduates will be well-prepared to make a positive impact on the lives of their patients and the community.

#### **CAREER OPPORTUNITIES**

Graduates of the SRU Bachelor of Medical Science in Physiotherapy program will be well-prepared to pursue a variety of rewarding career paths. Our graduates can find employment in medical and health services, universities, public health organizations, fitness research facilities, and private research organizations.

Physiotherapists are in high demand in a variety of settings, including private practice, aged care facilities, private and public hospitals, workplaces, community-based organizations, schools, and clinics for chronic health management. Physiotherapists may also specialize in orthopaedic, paediatrics, geriatrics, women and men's health, and other areas.

Graduates may also choose to pursue teaching opportunities in physiotherapy, therapy management, research, or become self-employed private physiotherapists. Our graduates will also be well-equipped to pursue a career as a sports physio rehabilitator or sports physiotherapist.

The SRU Bachelor of Medical Science in Physiotherapy program provides students with the skills and knowledge to pursue a variety of rewarding career paths. Our graduates will be well-prepared to make a positive impact on the lives of their patients and the community.

### Master of Science – Mental Health



#### **MISSION STATEMENT**

The Master of Science in Mental Health programme is designed to equip students with the knowledge and skills to become effective mental health practitioners. Our programme provides a comprehensive understanding of the various aspects of mental health, from population-based interventions to individual clinical and rehabilitation interventions, family and community support, and policy and planning. This programme is tailored to meet the needs of a variety of mental health professionals, including clinical psychologists, trainee psychiatrists, general practitioners, psychiatric nurses, occupational therapists, social workers, and case management and disability support workers.

Our mission is to equip students with the skills and knowledge to identify, assess, and treat mental health issues in a variety of contexts. Through our comprehensive curriculum, we strive to equip students with the ability to understand the complexities of mental health and to develop the skills to provide effective interventions. We also aim to foster an understanding of the importance of policy and planning when addressing

mental health issues in both individual and population-level contexts.

The Master of Science in Mental Health programme is committed to providing students with the skills and knowledge to become effective mental health practitioners. We strive to equip students with the ability to understand the complexities of mental health, provide effective interventions, and develop a strong understanding of policy and planning. Our mission is to prepare students to become competent, compassionate professionals who are committed to improving the lives of those affected by mental health issues.

#### **CAREER OPPORTUNITIES**

The Master of Science in Mental Health offers a range of career opportunities for graduates. Those who complete the course are well-equipped to work in a variety of clinical and non-clinical settings, including law enforcement, human services, education, and community health. In these roles, they can provide evidence-based mental health interventions to those in need.

Graduates are also well-suited to take on senior clinical, management, policy and planning mental health positions. They are able to use their knowledge and skills to diagnose, evaluate and treat mental health issues. Furthermore, they are able to provide support to those who need it and integrate their care into the existing mental health system.

Finally, graduates of the Master of Science in Mental Health can use their qualifications to pursue a career in psychiatry. This involves working with patients to diagnose and treat mental health disorders, as well as providing counselling and support services. With the right qualifications and experience, graduates can become psychiatrists in training, mental health nurses, or child psychotherapists.

# Master of Medical Sciences – Pediatric Nursing (MS-PDN)



#### **MISSION STATEMENT**

The mission of the Master of Medical Sciences – Pediatric Nursing (MS-PDN) programme is to provide students with the knowledge and skills to become competent and confident in the assessment and management of paediatric patients. We strive to equip our students with the ability to think critically, solve patient management problems, and develop evidence-based evaluations to the practice of caring for paediatric patients.

We are committed to providing an environment that encourages self-directed learning and inquiry, and to fostering an understanding of the scientific principles and research evidence that underpin the practice of paediatric nursing. We strive to provide a comprehensive approach to paediatric nursing care, enabling our students to develop the skills and knowledge necessary to progress to a more advanced level of practice.

Our ultimate goal is to produce graduates who are well-equipped to provide quality care to infants, children, adolescents, and their families. We aim to ensure that our students are equipped with the skills and knowledge to become competent, confident, and compassionate paediatric nurses who will make a positive difference in the lives of those they serve.

#### **CAREER OPPORTUNITIES**

Pediatric nursing offers a variety of rewarding career opportunities for those who are passionate about caring for children. Pediatric registered nurses provide preventative and critical care to newborns to young adults. They work closely with doctors, pediatricians, and other nurses to ensure the best care for their patients. Neonatal Intensive Care Unit (NICU) nurses provide critical care to premature and sick newborns. They also train parents on how to take care of their newborn once they leave the hospital. Pediatric Intensive Care Unit (PICU) nurses care for infants, children, and adolescents who become critically injured or ill. They monitor patients, give excellent care, and inform the family on updates. Labor and delivery nurses assist patients in bringing new life into the world every day and also teach mothers to care for their babies at home. School nurses work with their administration to provide nursing care and health counseling to students and staff.

Pediatric nurses must have excellent communication skills, be able to remain calm under highly-stressful situations, and be able to soothe a crying child. They must also be able to evaluate charts and measurements, as well as communicate with the child and parents about their health problems. Pediatric nurses must also be able to explain what's happening to both the child and their parents and create the best healthcare plans for the child to live a happy and healthy life.

Pediatric nursing is a rewarding and fulfilling career that offers many opportunities to make a difference in the lives of children. Those who choose to pursue a career in pediatric nursing must be dedicated to providing the highest level of care to their patients and must be willing to go the extra mile to ensure their patient's wellbeing. With the right skills and dedication, pediatric nurses can make a lasting impact on the lives of children and their families.

### Master of Science – Public Health (MS-MPH)

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#### **MISSION STATEMENT**

At the Master of Science in Public Health (MS-MPH) program, we strive to provide students with a comprehensive understanding of the fundamentals of public health. We aim to equip them with the critical thinking skills to approach public health theories, concepts, and frameworks in both national and international contexts. Our program is designed to ensure that our students are equipped with the knowledge and skills to make meaningful and effective contributions to public health policy and practice.

We are committed to providing our students with the necessary tools to become successful public health professionals. Our curriculum is designed to help our students develop the skills and competencies to analyze public health problems, develop solutions, and implement public health initiatives. We provide a comprehensive range of courses that cover topics such as epidemiology, health promotion, health systems, and global health.

At the MS-MPH program, we strive to promote public health through our commitment to research, teaching, and service. We strive to create an environment of collaboration and engagement among our students and faculty, and to foster an appreciation for the importance of public health in our society. We are dedicated to providing our students with the opportunity to develop the skills and knowledge to become effective public health leaders.

#### **CAREER OPPORTUNITIES**

The Master of Public Health (MS-MPH) program is designed to equip graduates with the knowledge and skills needed to work in public health. Upon successful completion of the program, graduates will have an in-depth understanding of research and enquiry, and be able to apply these skills in a public health context. Graduates will be able to use their knowledge and skills to implement a range of interventions to improve public health outcomes in different settings. This could include tackling pandemic flu epidemics, increasing access to health care services, reducing obesity or malaria rates, and developing communities to support those in need.

The MS-MPH program also provides graduates with the opportunity to pursue a career in public health. This could include working in government departments, nongovernmental organisations, healthcare organisations, research institutes, or in the private sector. Graduates may also choose to pursue a career in teaching, consulting, or policy development.

In addition to the career opportunities, the MS-MPH program also provides graduates with the opportunity to develop their leadership and management skills. This will enable them to take on roles such as health promotion officers, health advisors, project managers, and public health managers. Graduates will also be able to use their knowledge and skills to advocate for public health initiatives, and to design and implement public health programs.

### Master of Medical Sciences – Pharmaceutical Medicine



#### **MISSION STATEMENT**

The SRU Master of Medical Sciences in Pharmaceutical Medicine (MMSc – PM) has been designed to equip health professionals with the specialist knowledge and skills necessary to effectively work in the pharmaceutical healthcare sector. Our program provides a comprehensive overview of the field, covering topics such as drug development, pharmacovigilance, medical writing, and regulatory affairs. Through this program, we strive to foster a deeper understanding of the complex and dynamic relationship between pharmaceuticals and healthcare.

Our MMSc – PM program is tailored to meet the needs of a wide range of health science professionals, including physicians, pharmacists, nurses, and other allied health professionals. We emphasize the importance of evidence-based practice and the ethical considerations of pharmaceutical medicine. Our curriculum is designed to provide a strong foundation of knowledge and skills that will enable graduates to succeed in their chosen field.

At SRU, we are committed to providing our students with the highest quality of education and training. We strive to create an environment that encourages critical thinking and encourages our students to pursue their passions. Through our program, we strive to equip our graduates with the skills and knowledge necessary to become leaders in the field of Pharmaceutical Medicine.

#### **CAREER OPPORTUNITIES**



The Master of Medical Sciences – Pharmaceutical Medicine provides healthcare professionals with the specialist knowledge and skills needed to pursue a career in the pharmaceutical industry, regulatory authority, or other relevant areas of the healthcare system. Graduates of this program will be well-equipped to assume positions in the pharmaceutical industry, or to extend their current role in the healthcare system.

The program equips graduates with the necessary knowledge and skills to understand the complexities of the pharmaceutical industry, including the regulatory framework, drug development, and drug safety. Graduates will also be able to evaluate the efficacy and safety of pharmaceuticals, and to develop strategies for the successful marketing of drugs.

The program also offers graduates the opportunity to gain further insights into the ethical, legal, and economic aspects of the pharmaceutical industry. This knowledge and understanding can be used to develop innovative strategies for the successful management and marketing of drugs, as well as to provide advice on the best way to manage drug safety and efficacy. With the right qualifications, graduates of this program can become highly sought-after professionals in the pharmaceutical industry.



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# Master of Medical Sciences – Immunology



#### **MISSION STATEMENT**

The SRU Master of Medical Sciences Immunology program (MMSc – IMM) is committed to providing a comprehensive, evidence-based education in the field of immunology. Our mission is to equip our students with the knowledge, skills, and resources to become experts in the field of immunology, both in the laboratory and in the clinical setting.

We strive to provide our students with a strong foundation in both basic and clinical immunology, including a thorough understanding of the immune system, its components, and its functions. Through our curriculum, we provide our students with the opportunity to gain a deep understanding of the principles and techniques of immunology, as well as the ability to apply this knowledge to the diagnosis and treatment of diseases.

Our program also emphasizes research, providing our students with the opportunity to develop their skills in laboratory techniques, data analysis, and scientific communication. We provide our students with access to cutting-edge research facilities and the opportunity to collaborate with faculty and peers on research projects. Our goal is to foster a spirit of discovery and innovation among our students, preparing them to become leaders in the field of immunology.

#### **CAREER OPPORTUNITIES**

The Master of Medical Sciences – Immunology program is designed to meet the needs of both undergraduate biology students with an interest in medicine or research and academic physicians from a range of specialties. For the former, the program provides an in-depth knowledge of immunology to further their professional goals and research expertise. For the latter, the program offers a comprehensive understanding of immunology, allowing them to pursue a career in medicine or research.

The program covers a wide range of topics, including immunology, cell biology, biochemistry, genetics, and molecular biology. Students will gain a comprehensive understanding of the immune system, its components, and the mechanisms by which it functions. Additionally, they will learn about the diagnosis and treatment of immunological disorders, and the development of immunological therapies.

In addition to the core curriculum, students will have the opportunity to specialize in a particular area of immunology. This may include areas such as autoimmunity, immunogenetics, immunotherapy, cancer immunology, and infectious diseases. Students can also take part in research projects, internships, and clinical rotations to gain hands-on experience in the field. Upon completion of the program, graduates will be well-equipped to pursue a career in medicine, research, or any other field related to immunology.

# Master of Medical Sciences – Global Health Delivery



#### **MISSION STATEMENT**

The Master of Medical Sciences in Global Health Delivery (MMSc – GHD) program provides students with the skills and knowledge to become leaders in the field of Global Health Delivery. Graduates of this program will be equipped with the research, program design, and management skills needed to succeed in the global health field. Career opportunities include working in government agencies, international organizations, NGOs, and private sector organizations.

Graduates of the MMSc – GHD program are prepared to work in a variety of roles, such as health policy analysts, public health advisors, and health program managers. They may also be involved in designing and implementing health programs and policies in resource-limited settings, as well as conducting research on the effectiveness of health interventions. Additionally, graduates may be involved in developing strategies to improve health systems, promoting health equity, and advocating for health-related human rights.

The MMSc – GHD program provides a unique opportunity to develop the skills and knowledge necessary to become a leader in the field of Global Health Delivery. Graduates will be prepared to make an impact in their chosen field, and to make a difference in the lives of people around the world.

#### **CAREER OPPORTUNITIES**

Graduates from the MMSc - GHD program have a wide range of career opportunities available to them. Executive directors, chief operating officers, and chief programs officers are just some of the roles graduates can take on. These individuals are responsible for managing the operations of global health delivery organizations, and they often have to make difficult decisions that affect the lives of many.

Senior medical directors and medical directors are also in high demand in the global health delivery field. These professionals are responsible for developing and implementing strategies to improve the quality of care and the overall health of the population. They also work with government departments and ministries to ensure that resources are allocated appropriately.

Finally, research scientists, entrepreneurs, and program directors are also sought after in the global health delivery field. Research scientists are responsible for conducting research to identify new solutions to global health challenges. Program directors are responsible for designing, implementing, and evaluating programs to improve the health of individuals and communities. Entrepreneurs are also needed to develop innovative solutions to global health problems.

### Master of Medical Sciences – Medical Education



#### **MISSION STATEMENT**

The SRU Master of Medical Sciences in Medical Education (MMSc – Med.Ed) program is committed to advancing health professions education and healthcare through research, skills building, and innovation. Our mission is to empower those with specialized knowledge and skill in health sciences to use their expertise to transform health professions education. We strive to create a learning environment that will enable students to develop the skills and knowledge necessary to become leaders in the field.

We are dedicated to providing students with the opportunity to explore the latest advances in health professions education, while also fostering a culture of collaboration and innovation. Through our program, students will gain the skills and knowledge to apply their expertise to the advancement of health sciences and healthcare on a national and international level.

Our goal is to create a program that will equip students with the tools they need to become agents of change in health professions education. We strive to provide students with the resources and support they need to make a positive impact on the health sciences and healthcare field. By equipping our students with the skills and knowledge to make a difference, we hope to create a more equitable and effective healthcare system.

#### **CAREER OPPORTUNITIES**

The Master of Medical Sciences – Medical Education program provides students with the opportunity to gain a solid foundation in the theories and principles underpinning health professions education. This includes the science of learning, strategies of curriculum development and education design, adult learning theories, integration of education technology and principles of assessment. Through this program, students will gain comprehensive tools and protected time to engage in research on the most important issues in the field. This research can include empirical work and hypothesis testing using quantitative and qualitative analysis.

The program also provides students with the ability to apply the theories and principles they have learned in practice. This can include developing and implementing innovative educational strategies, evaluating the impact of educational interventions, and applying educational technology in the classroom. Additionally, students will be able to develop an understanding of the importance of assessment and evaluation in the field of medical education.

The Master of Medical Sciences – Medical Education program provides students with the knowledge and skills necessary to become successful educators in the medical field. This includes the ability to create and deliver effective educational programs, use technology to enhance learning, and develop assessment tools to evaluate the impact of educational interventions. With the knowledge and skills gained through this program, students will be prepared to take on leadership roles in the field of medical education. At the Faculty of Engineering and Electronics we actively encourage the power of the imagination, constraining it only by the laws of Physics.



# Bachelor of Engineering -Aerospace Engineering

#### **MISSION STATEMENT**

The Bachelor of Engineering Aerospace Engineering program at Springfield Research University University provides students with a comprehensive education to prepare them for successful careers in the field of aerospace engineering. Our mission is to equip graduates with the knowledge and skills necessary to design, build, and maintain aircraft and spacecraft that can safely and effectively meet the needs of the aviation and aerospace industries.

Our curriculum focuses on the fundamentals of aerospace engineering, such as aerodynamics, propulsion, structures, and materials. We also provide students with the opportunity to explore related topics, such as avionics, systems engineering, and space exploration. We strive to ensure that our graduates are knowledgeable, creative, and ethical professionals who can contribute to the advancement of the aerospace industry.

At Springfield Research University, we are committed to providing our students with the best education possible to ensure that they are prepared to take on the challenges of the aerospace engineering field. We strive to create a learning environment that is stimulating, supportive, and engaging, and we are dedicated to helping our students achieve their goals.

#### **CAREER OPPORTUNITIES**

A Bachelor of Engineering Aerospace Engineering degree provides graduates with a wide range of career opportunities. Aerospace engineers are in high demand, and they are responsible for the design and development of aircraft, spacecraft, and related systems. In addition to aerospace engineering, graduates can pursue careers in avionics, systems engineering, and space exploration.

Those with a Bachelor of Engineering Aerospace Engineering degree can also pursue careers in other related fields. These include drafters, aerospace technicians, data analysts, aircraft mechanics, inspection managers, technical sales engineers, mechanical engineers, data engineers, aircraft/spacecraft designers, pilots, mission specialists, and aviation managers.

The career opportunities for graduates of the Bachelor of Engineering Aerospace Engineering program are vast and varied. With the right knowledge and skills, graduates can pursue a successful career in the aerospace industry or in other related fields. With the right attitude and dedication, graduates can use their degree to make a positive impact in the aerospace industry and beyond.



# Bachelor of Engineering -Chemical Engineering

#### **MISSION STATEMENT**

SRU's Chemical Engineering program is dedicated to providing students with the knowledge and skills to become leaders in the field. We strive to equip our students with the technical expertise and moral leadership to develop innovative solutions to the challenges of the 21st century. Our program emphasizes the development of problem-solving skills, critical thinking, and an appreciation of the ethical implications of engineering solutions.

We are committed to advancing the field of chemical engineering through research and collaboration with industry partners. Our faculty members have a deep understanding of the latest advances in the field and are dedicated to helping our students stay ahead of the curve. We also strive to create a learning environment that is supportive and encourages students to explore their interests and develop their skills.

At SRU, we believe that a chemical engineering education is the foundation for a successful and fulfilling career. Our mission is to empower our students to become the next generation of innovators and leaders in the field of chemical engineering.

#### **CAREER OPPORTUNITIES**

Careers in Chemical Engineering offer a wide variety of opportunities for graduates. Those looking to work in the chemical manufacturing industry can find work as a chemical plant and system operator, where they will be responsible for ensuring all equipment is in working order and up to code, as well as conducting training, assessments, and inspections. For those looking to work in the manufacturing industry, there are opportunities as a production technician, where they will interact directly with machinery and equipment used in the production of raw materials or finished goods.

In the food industry, graduates can find work as a food scientist, where they will evaluate the characteristics of various foods and inspect finished products to ensure they meet customer specifications. For those looking to work in the pharmaceutical industry or medical research institutes, there are opportunities as a biotechnologist, where they will create new medications, vaccines, and experimental therapies.

Finally, those looking to work in the environmental field can find work as an environmental engineer, where they will utilize their knowledge of multiple disciplines to find solutions to environmental issues such as air and water pollution, soil degradation, and deforestation. They will also provide recommendations to local authorities in order to monitor and reduce the levels of pollution in the area and clean up waste sites.

### Bachelor of Engineering Robotics Engineering



#### **MISSION STATEMENT**

Springfield Research University's Robotics Engineering Program strives to provide students with the skills and knowledge to become leaders in the field of robotics and artificial intelligence. We are dedicated to nurturing a new generation of innovators who are capable of creating and developing robots and drones for a variety of applications. Our program is designed to give students the opportunity to explore the possibilities of robotics and AI, and to develop the necessary skills to create solutions to real-world problems.

Our program emphasizes the importance of collaboration and communication between students, faculty, and industry professionals. We encourage students to take advantage of the resources available to them and to actively engage in research and development. We strive to provide a supportive and diverse learning environment where students can share their ideas and collaborate to create innovative solutions.

#### CAREER OPPORTUNITIES

At Springfield Research University, we are committed to helping students become successful robotics engineers. Our program is designed to equip students with the necessary skills and knowledge to succeed in the field of robotics and AI, and to contribute meaningfully to the development of new technologies.

Robotics Engineering graduates can pursue a variety of career paths, including robotics engineer, artificial intelligence specialist, electromechanical and robotics technician, mechanical engineer, design engineer, software engineer, hardware engineer, sales engineer, aerospace engineer, computer scientist, and user interface/user experience (UI/UX) designer.

Robotics engineers are responsible for the design, development, and testing of robots and robotic systems, while artificial intelligence specialists focus on the development of algorithms and software for autonomous machines. Electromechanical and robotics technicians are responsible for the maintenance and repair of robotic systems.

Mechanical engineers design and develop robotic systems and components, while design engineers focus on the aesthetic and ergonomic aspects of robotics. Software engineers develop computer programs to control robotic systems, while hardware engineers design and construct the physical components of robots.

Sales engineers promote and sell robotic systems and components, while aerospace engineers develop and test robots for use in space exploration. Computer scientists develop algorithms and software for autonomous machines, while UI/UX designers create user-friendly interfaces for robotic systems.

### Bachelor of Engineering -Biomedical Engineering

#### **MISSION STATEMENT**

The Bachelor of Engineering in Biomedical Engineering provides students with an academic program that bridges the gap between engineering and biomedical science. It consists of seven semesters of engineering design and problem solving, traditional classroom and laboratory instruction. In the first two years, students receive a broad grounding in engineering and biomedical sciences.

The final year of school allows students to specialize in an area of their choice. Specialization options include biomaterials, biomechanics and biomedical instrumentation. They also work with a mentor from business or the medical field to solve a real-world problem as part of a Capstone design project.

This program equips students with the knowledge and skills necessary to become successful biomedical engineers. It provides them with the opportunity to make a positive impact on society and to contribute to the development of innovative medical solutions.



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#### CAREER OPPORTUNITIES

Biomedical engineering graduates have a wide range of career opportunities available to them. Senior Clinical Research Associates are responsible for managing and analysing data related to patient care, and must adhere to strict ethical standards. Biomedical Scientists are qualified to plan and carry out experiments in a laboratory setting and publish their findings in scholarly journals. Senior Medical Writers are responsible for producing manuals and other educational materials for audiences with and without medical backgrounds. Senior Medicinal Chemists develop the chemicals and compounds used in the production of therapeutic pharmaceuticals, and must predict how a drug will act in the human body.

Biomedical engineering graduates are also able to pursue careers in software development, medical device design, and healthcare consulting. They can work in research and development, or in the pharmaceutical industry, where they can develop drugs and treatments to improve patient care. Graduates can also work in the healthcare sector, where they can use their skills to develop innovative solutions to improve patient care and safety.

Graduates of biomedical engineering are also able to pursue careers in teaching and academia. They can teach courses related to biomedical engineering, as well as other courses related to the field. They can also pursue research and development, and work on projects to create new technologies and treatments. This degree can also open the door to many other opportunities, such as working in government, the military, or the private sector. With the right skills and experience, graduates of biomedical engineering can find a wide range of career opportunities.

### Bachelor of Engineering - Electrical Engineering



The Bachelor of Engineering in Electrical Engineering program at Springfield Research University is dedicated to providing students with the knowledge, skills, and abilities required to become successful engineers. Our mission is to provide students with an education that is both challenging and rewarding, enabling them to become leaders in the field of electrical engineering.

We strive to provide students with the tools and resources necessary for success, including the latest technology and industry-standard practices. Our courses are designed to equip students with the knowledge and skills to solve complex problems, develop innovative solutions, and create new products and services. We also strive to foster an environment where students can collaborate and share ideas, while also developing their own unique perspectives.

At SRU, we are committed to providing our students with the highest quality of education and the opportunity to become successful professionals in the field of electrical engineering. Through our rigorous curriculum, we strive to develop the critical thinking, problem-solving, and communication skills necessary to succeed in the field. Our faculty is committed to providing our students with the resources and guidance they need to reach their academic and professional goals.

#### **CAREER OPPORTUNITIES**

Graduates of the Bachelor of Engineering in Electrical Engineering program at Springfield Research University have a variety of career opportunities available to them. Electrical engineers are in high demand in many industries, including power generation and distribution, mining, renewable energies, industrial systems design, consumer product design, process control, electrified transformation, manufacturing, automotive, and defense.

In the power generation and distribution field, electrical engineers are responsible for the design, maintenance, and stability of the grid. They work to ensure that the grid is able to meet the needs of the consumers. In the mining field, electrical engineers are responsible for the development and maintenance of the systems used to extract resources from the earth. In the renewable energies field, electrical engineers are responsible for the design and implementation of systems that utilize alternative sources of energy.

In the industrial systems design field, electrical engineers are responsible for the development of systems that are used in the production and distribution of goods. In the consumer product design field, electrical engineers are responsible for the design and development of products that are used by consumers. In the process control industries, electrical engineers are responsible for the design and implementation of systems that are used to control the manufacturing process. Finally, in the electrified transformation field, electrical engineers are responsible for the design and implementation of systems that are used to convert electrical energy into other forms of energy.

Overall, electrical engineers have a wide range of career opportunities available to them, and can find employment in a variety of fields. With the right education and experience, they can become successful professionals in the field of electrical engineering.

## Bachelor of Engineering – Mechanical Engineering

#### **MISSION STATEMENT**

The Springfield Research University Bachelor of Mechanical Engineering Program is dedicated to providing students with the necessary knowledge, skills, and values to become successful and innovative professionals in the field of mechanical engineering. Our program is designed to offer students a comprehensive education that will prepare them to take on the challenges of a rapidly changing and diverse engineering field. We strive to provide our students with the tools and resources to become critical thinkers, problem solvers, and creative innovators.

The program focuses on the application of engineering principles to the design, analysis, and manufacture of machines, tools, and systems. Our curriculum emphasizes the integration of theory and practice, and provides students with the opportunity to develop their skills through hands-on experience. We also provide our students with the opportunity to gain knowledge and experience in areas such as materials science, manufacturing, and robotics.

The Bachelor of Mechanical Engineering Program at Springfield Research University is committed to helping our students become successful professionals in the field of mechanical engineering. We strive to create an environment that encourages collaboration, critical thinking, and innovation, while providing our students with the necessary knowledge and skills to succeed in their future endeavors.



#### **CAREER OPPORTUNITIES**

Mechanical engineers have the opportunity to pursue a wide variety of career paths. They can choose to work in the transport, power generation, mining, material processing, manufacturing, and air-conditioning and refrigeration systems industries. They can also work in the development, production, and quality assurance of motor vehicles, the construction of large-scale HVAC systems, material handling system design for the packaging and mining industries, the design of trains and trails, power generation and renewable power source, construction and maintenance in the petrochemical industry, computerized control in the Pharmaceutical industry, the aeronautical industry, the implementation of new manufacturing method in the electronics industry, research and development in industry, technical sales in the marketing divisions, engineering management in large and small firms, and the development of engineering computer software.

Mechanical engineers have the opportunity to work in a variety of settings, from large corporations to small start-ups. They can work in a range of industries, from automotive and aerospace to medical and consumer products. They can also work in research and development, product design and engineering, and manufacturing. Mechanical engineers can also work in marketing, sales, and management positions.

The career prospects for mechanical engineers are vast and varied. With the right qualifications and experience, mechanical engineers can find rewarding and challenging positions in many industries. With the right education and training, mechanical engineers can become leaders in their field and make a positive impact on the world.

## Bachelor of Engineering - Civil and Environmental Engineering

#### **MISSION STATEMENT**

The Bachelor of Engineering in Civil and Environmental Engineering program strives to provide students with a comprehensive and holistic education in the field. Our curriculum covers a wide range of topics, including construction engineering, engineering surveying, environmental engineering, geotechnical engineering, structural engineering, and water resources. We are committed to equipping our students with the knowledge and skills necessary to excel in the field and become successful professionals.

Our program is designed to nurture students' creative and analytical abilities and to cultivate their critical thinking skills. We provide a stimulating learning environment through hands-on learning experiences and interactive lectures, allowing students to gain practical experience and apply their knowledge to real-world problems. Our faculty are dedicated to providing our students with the support and guidance they need to reach their full potential.

At the Bachelor of Engineering in Civil and Environmental Engineering program, we strive to produce graduates who are knowledgeable, competent, and prepared to make a positive impact in the field. We are committed to helping our students become successful engineers and professionals who are capable of addressing the challenges of the future.

#### **CAREER OPPORTUNITIES**

Civil engineers are employed in a variety of industries, ranging from construction to environmental engineering. They are responsible for designing, constructing, and maintaining infrastructure projects, such as bridges, roads, and dams. Graduates of civil engineering programs can also find work in the field of construction management, where they oversee the planning and execution of construction projects.

Geotechnical engineers specialize in the study of soil and rock, and they are responsible for designing structures that are safe and stable. They are also involved in the design of underground structures, such as tunnels and foundations. Graduates of civil engineering programs can find work in this field as well.

Water engineers are responsible for designing and managing water systems, such as dams and reservoirs. They also work on water-related projects, such as irrigation and flood control. Graduates of civil engineering programs can find work in this field as well, and they are often employed by government agencies and private companies.

### Bachelor of Engineering -Architectural Engineering

#### **MISSION STATEMENT**

At Springfield Research University, our Bachelor of Engineering in Architectural Engineering program is dedicated to equipping students with the knowledge and skills to become leading professionals in the field. Our courses provide students with a comprehensive understanding of the principles and practices of architectural engineering, from planning and design, to construction and operations. We strive to create an environment where students can apply their creativity and innovation to develop and implement cutting-edge solutions for the built environment.

Our program is designed to equip students with the necessary skills to become successful in their chosen profession. We emphasize the importance of collaboration and communication between different stakeholders, as well as the development of critical thinking and problemsolving skills. Our courses also focus on the integration of new technologies and systems into existing structures, as well as the development of greener and more sustainable buildings.

At Springfield Research University, we are committed to providing our students with the best possible education and experience. We strive to create a learning environment that is both challenging and rewarding, and to provide students with the tools and resources they need to succeed in their chosen field. Our goal is to produce graduates who are well-equipped to make a lasting impact on the built environment.

#### **CAREER OPPORTUNITIES**

The Bachelor of Engineering in Architectural Engineering provides students with a broad range of career opportunities. Graduates are equipped with the knowledge and skills to pursue a variety of positions in the public and private sectors.

In the field of architectural design, architectural engineers are responsible for creating and implementing innovative designs for buildings and other structures. They may also be involved in the planning and development of new construction projects. In addition, they can pursue careers in structural building systems, HVAC, fire protection systems, electrical and lighting systems, and building automation systems.

Architectural engineers are also in high demand due to the growing emphasis on sustainability and green building. They can specialize in energy-efficient building systems and renewable energy sources, as well as the integration of new technologies into existing structures.

Finally, architectural engineers can pursue managerial positions, such as project managers, site supervisors, and construction managers. These roles involve overseeing the entire construction process, from design and planning to execution and completion.

The Bachelor of Engineering in Architectural Engineering provides students with the skills and knowledge to pursue a wide range of rewarding and challenging careers in the field.

### Bachelor of Engineering – Quantity Surveying and Cost Engineering

#### **MISSION STATEMENT**

The SRU Bachelor of Engineering in Quantity Surveying and Cost Engineering program is dedicated to equipping students with the knowledge and skills to understand the financial and legal implications of construction projects. Our mission is to provide students with a comprehensive education in the construction industry, from feasibility to post-completion.

We strive to give our students the ability to manage and administer construction costs and contracts for a wide variety of levels and types of construction. This includes preparing cost plans and estimates, bills of quantities, tender appraisals, valuations, project audits, property taxation, and life cycle cost advice.

Our students will learn to collaborate effectively with other professionals, such as architects, financiers, project managers, engineers, contractors, suppliers, and legal counsel, as well as with all levels of government. We are committed to providing our students with the knowledge and skills necessary to become successful professionals in the field of Quantity Surveying and Cost Engineering.

#### CAREER OPPORTUNITIES

Graduates of the SRU Bachelor of Engineering in Quantity Surveying and Cost Engineering program are highly sought after for their knowledge and skills in the construction industry. Graduates can pursue a variety of career paths, including those in quantity surveying, project management, engineering, and health and safety.

Quantity surveying consultants are responsible for the financial aspects of construction projects, from the feasibility stage through to post-completion. They prepare cost plans and estimates, bills of quantities, tender appraisals, valuations, project audits, property taxation, and life cycle cost advice. Contractors and site managers oversee the day-to-day operations of construction sites, while project managers are responsible for the overall management of a project.

Urban/residential surveyors and development surveyors are responsible for the planning and development of residential and commercial properties. Site engineers and building services consultants provide technical advice and support to the project team, while consulting civil engineers provide design and technical advice to the project team. Health and safety officers are responsible for ensuring that construction sites are safe and compliant with relevant regulations.

Overall, graduates of the SRU Bachelor of Engineering in Quantity Surveying and Cost Engineering program will have access to a wide range of career opportunities.

### Bachelor of Engineering - Geology and Geological Engineering

#### **MISSION STATEMENT**

The Geology and Geological Engineering program at SRU is dedicated to preparing students for the challenges of a changing world. We strive to equip our graduates with the knowledge and skills to understand and manage the complexities of our planet's natural resources. We provide a comprehensive education in geology, engineering, and environmental science, emphasizing the importance of sustainability and ethical decision-making.

Our graduates are prepared to tackle the environmental and resource issues of a growing population, including climate change, water and energy conservation, and the management of natural resources. We strive to develop innovative solutions that are safe, sustainable, and cost-effective. Our students are encouraged to think critically and creatively, and to use their knowledge to develop solutions that benefit both people and the environment.

At SRU, we are committed to providing our students with the knowledge and skills to become successful professionals and responsible citizens. We strive to create graduates who are well-equipped to make a positive impact on their communities, and to become leaders in



the field of geology and geological engineering.



Graduates of the Geology and Geological Engineering program at SRU have access to a wide variety of career paths. Engineering Geology and Geotechnics offers opportunities in site investigation, design and stabilization of foundations and slopes, site characterization, design, construction and remediation of waste disposal sites or contaminated sites, and assessment of geologic hazards for civil, mining or environmental engineering projects. Ground-Water Engineering offers careers in assessment and remediation of ground-water contamination, design of ground-water control facilities for geotechnical projects, and exploration for and development of ground-water supplies.

Petroleum Exploration and Development Engineering provides opportunities in search for and development of oil and gas, as well as their efficient extraction. Mineral Exploration and Development Engineering offers careers in search for and development of natural deposits of metals, industrial materials and rock aggregate. Finally, Geological Science provides a solid foundation for further study or employment in the geosciences, including climate change, the origins of the planet Earth, planetary science, the fractal representation of groundwater flow, and the simulation of sedimentary rock sequences.

The Geology and Geological Engineering program at SRU provides graduates with the knowledge and skills to pursue a variety of rewarding and meaningful careers. Our graduates are well-equipped to make a positive impact on their communities and to become leaders in the field of geology and geological engineering.

### Master of Engineering – Architectural Engineering

#### **MISSION STATEMENT**

The mission of the Master of Architectural Engineering is to equip graduates with the technical knowledge and creative skills to design and construct buildings that are both aesthetically pleasing and structurally sound. Our program provides students with a comprehensive understanding of the principles of engineering, architecture, and structural design, as well as the current practice contexts of environmental, technological, regulatory and project-delivery systems.

Students will gain advanced knowledge of the principles of engineering and design, based on architectural history, theory and contemporary practice. They will also learn to think strategically at different environmental and urban scales, and consider economic, environmental, social and cultural issues when making design decisions.

The program is designed to produce graduates who are highly competent in the architectural, engineering and structural design of buildings, and who have the skills to apply their knowledge in a range of professional contexts. Our graduates will be equipped with the knowledge and skills to make a positive contribution to the built environment, both locally and internationally.

#### **CAREER OPPORTUNITIES**

The Master of Architectural Engineering provides a wide range of career opportunities in the design, construction, and management of buildings. Graduates of this program are highly sought after by employers in the field, as they possess the technical and creative skills to design and produce outputs that meet the needs of the industry.

Those with a Master of Architectural Engineering degree can find employment in a variety of fields, including architecture, construction, engineering, urban planning, and sustainability. They can work on projects such as designing and constructing new buildings, renovating existing structures, and developing urban plans. They can also work in the management of building projects, ensuring that they are completed on time and to the highest standards.

Additionally, graduates of this program can find employment in the public sector, such as in government agencies and local authorities. Here, they can work on projects such as designing and constructing public buildings, developing urban plans, and managing public infrastructure. They can also find employment in the private sector, such as in engineering firms, construction companies, and architectural firms. Here, they can work on projects such as designing and constructing private buildings, developing urban plans, and managing private infrastructure.

### Master of Technology – Applied Artificial Intelligence

#### **MISSION STATEMENT**

Our mission at the Master of Technology in Applied Artificial Intelligence is to provide an internationally recognised qualification in the field of artificial intelligence, machine learning, and computer vision. We strive to equip our students with the skills and knowledge to become leaders in the field of artificial intelligence, enabling them to make meaningful contributions to the world.

Our program focuses on developing a comprehensive understanding of the fundamentals of artificial intelligence, machine learning, and computer vision, as well as the practical application of these concepts. We are committed to helping our students stay up-to-date with the latest developments in the field, and to providing them with the tools and resources they need to succeed.

At the Master of Technology in Applied Artificial Intelligence, we are dedicated to preparing our students for the challenges of the future. We strive to create an environment of collaboration and innovation, where students can develop their skills and knowledge to become the next generation of AI experts. We are committed to providing our students with the best possible education and resources to help them reach their highest potential.

#### CAREER OPPORTUNITIES

The Master of Technology – Applied Artificial Intelligence program offers students the opportunity to become an Artificial Intelligence Engineer in the information technology industry. These engineers are responsible for creating and maintaining AI systems and applications, as well as developing new technologies and algorithms to improve existing systems. AI engineers must be knowledgeable in programming, machine learning, and data science, as well as have a deep understanding of the technology and its applications.

The program also offers students the chance to pursue a PhD in computer science. This advanced degree can open up a variety of opportunities in the field, such as research and teaching positions at universities, as well as research positions in the private sector. With a PhD, students can become experts in their field, as well as work on cutting-edge research projects.

Finally, graduates of the program can also pursue careers in other industries, such as finance, healthcare, and transportation, where AI is being used to automate processes and improve efficiency. These professionals are in high demand and can find positions in a variety of roles, from data scientists to software engineers. With the right qualifications and experience, these professionals can become experts in their field and help shape the future of AI technology.

At Springfield, diversity is not a concession, but a central idea through which we foster creativity

# and strengthen academic rigour

# Research Beyond Boundaries



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- Financial Engineering
- Forest Science
- Genomics and Precision Medicine/Biomedical Science
- Global Health Delivery/Immunology/Medical Education/Pharmaceutical Medicine
- Governance. Peace Building and Leadership
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- Homeland Security
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