Internship Programme

Tap on our talent pool to prepare your business for the digital future

Student interns provide organisations with valuable support to ease manpower needs while serving as a potential talent pipeline. They bring fresh ideas and perspectives that can boost productivity and innovation. The internship programme also allows employers and students to assess mutual fit before considering full-time employment.

NUS-ISS Graduate Internship Programme (For Full-Time Students)

Internship are an integral part of the NUS-ISS graduate programme curriculum. They give students the opportunity to apply classroom learning in real-world environments, gain deeper industry insights, and develop realistic career expectations. The experience enhances their adaptability, builds essential workplace skills, and ensures a smoother transition into the workforce after graduation. It also provides a valuable platform for students to expand their professional networks.

Our students have interned at companies like:

A*Star Singapore Institute of Manufacturing Technology (SIMTech), AMD, Anker Technology (SG), ByteDance, COURTS (Singapore), Design Prodigy, Great Eastern, HP Singapore (Private) Limited, Huawei International, Infineon Technologies, IPI Singapore, JD.com, KPMG, Mediacorp, Meituan China (Beijing), National Dental Centre of Singapore, National Institute of Education, Nanyang Technological University, Nested Technologies, NetLink Trust Operations Company Pte Ltd, NEW DATA AI, NHG, NUHS Centre for Healthcare Innovation, Yong Loo Lin School of Medicine (NUS), Oracle, Philips, PSA International, Ryde Technologies, Shopee, Singapore General Hospital, Singapore LNG Corporation, SingHealth Polyclinics, SoftwareOne, SP Group, ST Engineering, Tencent, The Coca Cola Group, TikTok, Toffs Technology, Tymetech

Internship are a win-win for everyone involved. You always get back more than you put in. Companies gain trained and motivated students who bring fresh perspectives and greater diversity. They also create opportunities for current staff to develop supervisory experience, while offering a cost-effective way to evaluate and recruit potential hires. At the same time, students receive on-the-job training, real-world exposure, and experience in teamwork and meeting deadlines, all essential skills for future success. It is also a valuable chance to align their interests with potential career opportunities.

Dr. Leong Mun Kew
Director, Graduate Programmes, NUS-ISS

NUS-ISS offers five graduate programmes: the Graduate Diploma in Systems Analysis (GDipSA), the Master of Technology in Enterprise Business Analytics (MTech EBAC), the Master of Technology in Artificial Intelligence Systems (MTech AIS, formerly known as MTech KE), the Master of Technology in Software Engineering (MTech SE), and the Master of Technology in Digital Leadership (MTech DL). All full-time students undertake an internship, while part-time students complete a capstone project.

Graduate Diploma in Systems Analysis (GDipSA)

The GDipSA is a one-year full-time programme designed for graduates who wish to equip themselves with the latest IT knowledge and skills to advance their careers, as well as for non-IT graduates looking to transition into the IT industry.

Students will learn how to build IT solutions through lectures, workshops, laboratory sessions, projects, and internships. They will be able to apply techniques acquired during the course to gather user requirements, analyse and design feasible solutions, and then proceed to code, test, and implement these solutions. The numerous projects provide hands-on practice across web, cloud, and mobile platforms.

Alongside technical modules, students also develop skills in UX design, teamwork, and leadership, which are highly valued in today's workplaces. Working in project teams, they gain practical experience and apply these skills through on-the-job training.

Graduates of this programme will be able to:

- Design and implement IT solutions across multiple platforms
- Apply systems analysis techniques to gather requirements and propose solutions
- Develop applications using industry-relevant tools and methodologies
- Work effectively in project teams, applying collaboration and leadership skills
- Adapt quickly to real-world IT environments through practical training and internships

Internship Objectives
- Exposure to real-life work environments
- Learn new domain knowledge
- Practise new technical skills
- Develop feasible IT solutions for the internship company

Learning Outcomes For Students	Duration	Proposal Submission
· Developing solutions using Java EE, C# .NET, SQL, React JS, Python (with ML), Android Kotlin, as well as CI/CD and DevOps practices.	· Feb Intake - Sep to Jan · Aug Intake - Mar to Jul	· Feb Intake - mid Jun · Aug Intake - mid Dec

No. of Students Per Group	Monthly Allowance
1 to 4	$1,200 - $1,500 (recommended)

MASTER OF **TECHNOLOGY PROGRAMMES**

Master of Technology in Artificial Intelligence Systems (MTech AIS)

The MTech AIS programme equips students with the concepts, techniques, and methods of Artificial Intelligence and Machine Learning, along with the practical skills needed to design and develop AI system applications across diverse domains. It is targeted at professionals who wish to play a leading role in Industry 4.0, an era defined by breakthroughs in robotics, artificial intelligence, the Internet of Things, 3D printing, and autonomous vehicles.

Students will develop the expertise to design, build, and implement smart systems and software that power tomorrow's robots, autonomous vehicles, and other intelligent devices, whether in factories, offices, public spaces, or homes.

Graduates of this programme will be prepared for roles such as:

- Artificial Intelligence Engineers
- Machine Learning Application Specialists
- Robotics System Developers
- Vision and Video Applications Developers
- Smart City Application Developers
- Intelligent Process Automation Developers
- AI Business Systems Developers
- Intelligent Virtual Assistant Developers

Internship Objectives
· Design, build and deliver AI system applications
· Provide identifiable benefits to client by utilising Artificial Intelligence and Machine Learning techniques and methods

Learning Outcomes For Students	Duration	Proposal Submission
· Gain valuable hands-on experience applying Artificial Intelligence and Machine Learning techniques to real industry problems	Mid Mar to early Aug (20 weeks full-time with 1 week of exam break)	Submission window between Oct and Jan
	No. of Students Per Group	**Monthly Stipend**
	1 to 3	$1,500 - $2,000 (recommended)

Master of Technology in Software Engineering (MTech SE)

The MTech SE programme focuses on developing the skills necessary to architect, build, and manage scalable, secure, and AI-enabled software systems that are robust and reliable. It covers modern software technologies, engineering methodologies, management techniques, and AI tools.

Students will gain practical expertise in systematically constructing software systems using state-of-the-art techniques, as well as managing their delivery to meet organisational and customer needs. The programme develops both technical capabilities and project management skills to ensure graduates can deliver innovative, high-quality solutions.

Graduates of this programme will be highly capable of performing roles such as:

- Managing a software development project following an agile approach
- Engineering a software system using the appropriate software engineering methods and construction technologies
- Applying project and quality management techniques to deliver a software system that meets user requirements
- Becoming architects and managers capable of successfully developing and deploying scalable software systems
- Working as data engineers and AI-enabled solution architects capable of architecting and building AI-enabled systems

Internship Objectives
· Apply tools, techniques and methods to architect, build and deliver scalable, secure, and AI-enabled software systems as well as add value in areas such as machine learning, analytics, safety, real-time processing, fault tolerance, hardware, robotics and vision
· Provide sponsoring organisations with opportunities to explore and evaluate new technologies and methods
· Demonstrate mastery of software engineering skills and readiness for professional practice

Learning Outcomes For Students	Duration	Proposal Submission
· Manage a software development project following an agile approach · Engineer a software system using the appropriate software engineering methods and construction technologies · Apply project and quality management techniques to deliver a software system that meets the user requirements	Mid Mar to early Aug (20 weeks full-time with 1 week of exam break)	Submission window between Oct and Jan
	No. of Students Per Group	**Monthly Stipend**
	3 to 5	$1,500 - $2,000 (recommended)

Master of Technology in Enterprise Business Analytics (MTech EBAC)

The MTech EBAC programme is specifically designed to meet industry demand for practical business analytics skills. It develops new practitioners and upskills professionals with relevant background, such as IT, business, marketing, or operations, who may lack the academic foundations to advance into specialist or expert roles.

Students will gain the skills needed to manage end-to-end analytics projects, applying advanced techniques to integrate data, uncover insights, and drive better business decisions. They will also develop practical expertise in areas such as customer segmentation, forecasting, sentiment analysis, optimisation, and operationalising analytics models.

Graduates of this programme will be capable of undertaking advanced data analytics projects across a wide range of business domains, including:

- Discovering insights by integrating data from multiple sources
- Applying data analytics concepts and techniques to solve major business problems
- Applying customer segmentation and customer value evaluation techniques to influence business strategy and customer engagement model
- Applying forecasting and prediction techniques to better manage company and sales channel performance

- Applying sentiment mining techniques to monitor customer feedback on social media and surveys
- Optimising resources to maximise company profit
- Operationalising analytics models within the organisation
- Applying Big Data technologies to extract value from diverse data sources such as web and IoT

Internship Objectives
· Practise new technical skills through real-life consulting engagements
· Apply tools, methods and techniques learnt

Learning Outcomes For Students	Duration	Proposal Submission
· Understand business problems and identify appropriate analytics techniques to resolve them · Plan and execute business analytics projects · Conduct data exploration, model building and testing of results in a particular business domain · Present and report results and recommendations to business audiences	Mid Mar to early Aug (20 weeks full-time with 1 week of exam break)	Submission window between Oct and Jan
	No. of Students Per Group	**Monthly Stipend**
	1 to 3	$1,500 - $2,000 (recommended)

Capstone Project Work For Part-time Students

The MTech AIS, SE and EBAC part-time students undertake off-site projects with the same objectives and structure as the internship (on-site) projects undertaken by the full-time students. However, as their projects are off-site, they are not conducted at the sponsoring company's premises or using the company's resources (unless required by the sponsor) and are scheduled over a longer period due to the part-time nature of their studies.

Programme	Start Date & Duration	Proposal Submission	Students Per Group	Monthly Stipend
MTech AIS MTech EBAC	Mar to Sep (7 months*) Min 30 man-days / student *On request - extension up to 12 months	Submission window between Oct and Jan	1 to 5	Not Applicable
MTech SE	Mar to Oct (may start earlier; 8 months) 45 man-days per student	Submission window between Oct and Jan	3 to 5	Not Applicable

Hear from Students and Organisation

"The NUS-ISS MTech AIS programme provided me with a strong foundation in AI and machine learning, which I was able to directly apply during my internship at Ample Solutions. There, I fine-tuned LLMS for AmpleGPT, integrated scalable FastAPI backends, and deployed solutions on Alicloud GPU servers using CI/CD pipelines.

Guided by expert mentorship, I had the opportunity to work on industry-grade NLP solutions which honed my technical depth, problem-solving ability, and collaborative mindset. This experience solidified my goal of designing AI systems that create measurable business impact.

Yatharth Sant
MTech AIS, Class of 2024
Research Engineer, Department of Electrical and Computer Engineering, NUS – College of Design and Engineering

"My internship at IPI Singapore, a subsidiary of Enterprise Singapore, was an enriching journey that strengthened both my technical and professional skills. The comprehensive curriculum in the NUS-ISS MTech EBAC programme equipped me with key competencies in data analytics project management, exploratory data analysis, and building data pipelines. I was able to apply these skills directly during my internship to support effective insights delivery.

Leading a proof-of-concept on Google Cloud honed my data analysis, validation, and modelling skills, while cross-team collaborations improved my communication and project management abilities. The mentorship and guidance I received empowered me to tackle challenges confidently and deliver impactful results. This journey has been so rewarding that I have since joined IPI Singapore as a full-time employee.

Eswar Raj Rajendran
MTech EBAC, Class of 2025
Manager, AI & Digital Platforms, IPI Singapore

"The internship programme has been valuable for The Coca-Cola company. Through this, we had the opportunity to work with talented and driven NUS-ISS interns who contributed meaningfully to our organisation. The strong foundation that NUS-ISS interns gained from the programme equipped them to hit the ground running. Their fresh perspectives and analytical capabilities helped uncover new ways to use unconventional market data and sales insights to drive in market performance, supporting our broader commercial goals.

Beyond their technical contributions, we were impressed by their curiosity, proactive approach, and ability to quickly adapt to our business environment. Overall, the internship programme has been a strategic advantage, enabling us to tap into emerging talent, gain fresh ideas, and accelerate project outcomes that support our innovation efforts.

Mr Gaurav Singhal
Director, Data Engineering Analytics & AI,
The Coca-Cola Company

Our Graduate Programmes

Master of Technology in
Artificial Intelligence Systems

Available as
Stackable Graduate Certificate Programme in Artificial Intelligence

Master of Technology in
Digital Leadership

Available as
Professional Certificate Programme in Digital Leadership

Master of Technology in
Enterprise Business Analytics

Available as
Stackable Graduate Certificate Programme in Data Science

Master of Technology in
Software Engineering

Available as
Stackable Graduate Certificate Programme in Smart Systems & Platforms

Graduate Diploma in
Systems Analysis

Available as
Stackable Graduate Certificate Programme in Digital Solutions Development

About NUS-ISS

Established in 1981, NUS-ISS nurtures digital talent for the industry through graduate education, executive education programmes, consultancy, applied research, and career services. NUS-ISS guides individuals and organisations to bridge future opportunities through a unique portfolio of multiple learning pathways such as blended learning and stackable programmes, leading the way in shaping the next curve of digital excellence. It offers a wide spectrum of programmes in critical industry disciplines, such as digital leadership, software development, data science, artificial intelligence, cybersecurity, product management, digital health, digital innovation and digital sustainability.

To date, over **208,000** digital leaders and professionals, **8,832** corporate client organisations, and **8,952** graduate programmes alumni have benefitted from NUS-ISS' suite of services. Its programmes are delivered by NUS-ISS staff with an average of more than 20 years of industry experience and supported by a strong network of partners. NUS-ISS also works with industry partners and associations locally and globally to co-create a digital learning ecosystem that inspires and shapes solutions for the digital economy.

NUS-ISS Career Services

The Career Services Office seeks to enhance employability in the infocomm industry by equipping graduate students and unemployed participants from the short course training programme with career development and planning skills. NUS-ISS Career Services also provides services and events such as personalised career coaching, job placements and bi-annual career fairs.