What Our Students Say

The highlight of the NTU iSS RE program was the industry attachment, for which I worked with an airlines company. It was an extremely interesting experience and enjoyed my time there applying the knowledge I learned during my internship. During my tenure I developed revenue and passenger-based predictions, along Time Series prediction and eventually deploying the models to AIS. What is interesting is that my internship supervisor was also a previous student of NTU-iSS, which gave me immense networking opportunities. This NTU-iSS has done really well at the Master’s higher education level.

Mr Andrew Cheng
MSc ’18, Class of 2017
Senior Software Engineer, GSI National Laboratories

The key differentiating factor of the NTU-iSS iSS Tech EBAC programme is the enriching internship opportunity not offered anywhere else. I was able to build upon my classroom studies and solve real world problems through working on user interaction analytics projects for online channels at a reputable insurance company. In addition, my NTU-iSS supervisors kept themselves available for constant feedback and evaluation which spurred me on to ensure quality delivery within the stipulated time.

Mr Rajit Chhaya
MSc ’18, Class of 2017
Product Analyst, India

What Organisations Say

The Internship program has been a mutually beneficial program that has provided students with real world industry experience and practical skills. iSS has equipped the students well with core skills needed to get up to speed and start contributing after a month on the job. Students are exposed to the software development pipeline from initial inception of the ideas, analysis and development to actual production release. EON Reality has benefited by getting enhancements and features for Proof of Concept and actual production projects.

Mr Farid Mohd Ismail
Software Architect
EON Reality

What makes NUS-iSS interns unique is their passion to innovate, strong data science knowledge and a never give up attitude. From the onset, NUS-iSS interns have played a pivotal role in supporting NTUC Income’s transformation journey throughout engaging in analytics, big data and digitalisation work. Every batch of intern consistently demonstrates unique value proposition and new ways to business problem solving, such as using historical data trends to set dynamic salary targets. Full-time employment were subsequently offered to interns based on their outstanding internship performance. NTUC Income truly appreciates the value-added the NUS-iSS interns provides and would like to thank NUS-iSS for the wonderful opportunities to collaborate through internships.

Mr Amit Kumar Singha
Manager, Data Analytics, Information Technology
NTUC Income

Our students have interned at companies like:

- Accenture
- Actian
- Autodesk
- BCS Information Systems
- Bepond
- BigBlueIngenuity
- Cloudera
- CrimsonData
- Experian
- Intricon
- Land Transport Authority (LTA)
- Lyra Analytics
- Oracle
- Hewlett Packard
- Infor
- Keen Software Systems
- Port of Singapore Authority (PSA)
- SAS
- Sage
- Skyworks
- SingTel
- SPH
- ST Electronics
- Stantec
- Sybase
- Tidex
- Toplim
- TRF
- Uthmic
- Valiant
- Visa
- Xero
- Yahoo!
- Zoll

About the Institute of Systems Science (NUS-iSS)

Established in 1991, the Institute of Systems Science at the National University of Singapore (NUS-iSS) develops digital solutions for the industry through graduate education, professional development programs, research, consultancy, and applied research and career services. NUS-iSS is widely recognized as a champion of the nation’s skillfuture movement and driving digital economy that is always learning and always evolving.

NUS-iSS has implemented a unique portfolio of multiple learning pathways, with a wide spectrum of programmes in technical skills, including information technology, data science, artificial intelligence, cybersecurity, smart health, digital government and digital innovation.

To date, over 135,000 infocom & business professionals, 7,200 corporate customers and 5,250 post-graduate students have benefited from NUS-iSS. A wide range of services for programmes are delivered by iSS staff with an average of more than 30 years of industry experience.

NUS-iSS Career Services

To enquire about how our services can help you on your career journey, contact our advisory team by email at career@nuss.edu.sg. For further advice please contact:

Ms. AIS, A02, 2012 Email: career@nuss.edu.sg

Tap on our talent pool to prepare your business for the digital future.
## Master of Technology in Business Analytics (MTech (BTE Analytics))

Data is now more accessible to business professionals and managers than ever before. This allows for better decision-making and a wider use of statistics, for example to predict revenue, decrease costs, improve customer experience and maximize profits, optimize processes, reduce risk and prevent fraud and many more.

The MTech (BTE Analytics) program is specifically designed to address the demand of the industry for Business Analytics skills and knowledge by developing new graduates or upgrading entry level professionals who have a suitable professional background such as IT professionals, business marketers, etc. in this field. It is a unique curriculum to train the workplace- upon graduation. This experience is also a valuable opportunity for them to build successful business networks.

**Graduate Diploma in Systems Analysis (GDiSA)**

This program is designed for graduates who recognize the need to equip themselves with the latest knowledge and skills, and wish to advance their careers in their current field. It also provides an opportunity for mid-career change, to move from a relative field into the IT industry.

In this one-year full-time program, students are taught how to build IT solutions through lectures, workshops, laboratory sessions, projects and internships. Students will be able to apply the techniques that they have learned during the course to gather user requirements and develop business or IT solutions. These solutions will then be coded and tested to ensure they achieve their intended purpose.

The GDiSA program also emphasizes the building and enhancing of essential soft skills such as project management qualities, independence, creative team working attitudes and affective team leader techniques. Students will be assigned to work in project teams learning by doing the ‘bench training’.

## Master of Technology in Software Engineering (MTech SE)

The MTech SE program emphasizes the knowledge and skill required for software development and engineering scalable, secure and smart systems and products. It covers a wide range of software technologies, methodologies and management techniques. The course is practical and experimental, construction of software systems is complemented by innovative and state-of-the-art techniques.

The program will equip you with the essential knowledge and practical skills necessary to architect, design, build, and manage the on-time delivery of fully tested, robust and scalable software systems for your organization and customers.

The degree arms you with the skills and expertise to deliver the following future-ready jobs in the advanced IT industry:

- Manage and lead software development projects following a formal methodology
- Engineer software systems or platforms using appropriate software engineering methods and methodologies
- Apply project and quality management techniques to deliver a robust solution that meets user requirements
- Architec and Managers capable of successfully architecting, designing and deploying smart systems and platforms
- Data Engineers and Smart Systems Engineers capable of architecting and building scalable systems and platforms

## WORK PROJECT FOR PART-TIME STUDENTS

The MTech EAS - 5 and SE part-time students undertake offsite projects with the same objectives and structure as the on-campus full-time projects undertaken by the full-time students. However, their projects are offsite, they are not on campus and their sponsoring company’s premises or using the company’s resources. The project is supervised by an EAS/SE Project Advisor and a Project Committee, consisting of one internal faculty advisor and one external faculty advisor. This ensures the on-campus nature of their studies.

<table>
<thead>
<tr>
<th>MTech EAS</th>
<th>Offsite student</th>
<th>Offsite</th>
<th>Project Advisor</th>
<th>Industry Advisor</th>
<th>Project Committee</th>
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<td>Offsite 1</td>
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**NOTES**

- Students are required to have access to an offsite work environment.
- Students are not required to work from the company’s premises or using the company’s resources.
- The project is supervised by an EAS/SE Project Advisor and a Project Committee, consisting of one internal faculty advisor and one external faculty advisor.

**Fees**

- Student fees: Rs 35,000 (payable at the time of joining)
- Project fees: Rs 5,000 (payable at the time of project approval)
- Total: Rs 40,000

**Eligibility**

- Bachelor's degree in computer science, information technology, or a related field from a recognized university with a minimum of 50% aggregate in the final year.
- Relevant work experience in software development or systems engineering is an advantage.

**Duration**

- 2 years full-time

**Application**

- Online application on the website
- Application forms are available on the website
- The application deadline is 30 June of each year.