

**EMBARGOED UNTIL COS 2022**

## **MEDIA FACTSHEET**

### **More tech job opportunities for Polytechnic and ITE graduates**

1. Students and graduates from Polytechnics and the Institute of Technical Education (ITE) will have access to more tech job opportunities that will help them gain industry experience and practical skills.
2. Digital technology (“tech”) professionals are in high demand across the economy, providing good jobs for Singaporeans, including graduates from Polytechnics and ITE (examples of tech job roles in **Annex A**). With the support from industry, more jobs will be made available to Polytechnic and ITE graduates, such as entry-level application developers, data analysts, and database administrators.
3. Students and graduates will follow clear end-to-end pathways to kick start their careers and ascend the skills ladder. Before going into the workforce, students will go through high quality tech internships integrated with their school curriculum, to pick up industry-relevant skills and are prepared for employment. After graduation, they will go through structured on-the-job training under the Infocomm Media Development Authority’s TechSkills Accelerator (TeSA), to bridge them into good tech jobs and accelerate their professional development. While working, they can continue with their education and deepen their expertise to secure higher-value tech jobs, such as via the SkillsFuture Work-Study Programme (more details in **Annex B**).
4. Employers interested in providing internship or job opportunities for Polytechnic and ITE students and graduates can write to [info@imda.gov.sg](mailto:info@imda.gov.sg).

## Annex A: Examples of Job Roles

Examples of ICT related job roles suitable for Polytechnic and ITE graduates and possible progression pathways are set out in the table below:

Area	Associate roles	Progression pathways to more senior roles
Software & Applications	<ul style="list-style-type: none"> <li>Application Developer</li> <li>IT Testing / QA</li> </ul>	<ul style="list-style-type: none"> <li>Software Engineer</li> <li>UI / UX Designer</li> </ul>
Cybersecurity	<ul style="list-style-type: none"> <li>Security Operations</li> </ul>	<ul style="list-style-type: none"> <li>Security Engineer</li> <li>Penetration Tester</li> <li>Threat Analyst</li> </ul>
Data & AI	<ul style="list-style-type: none"> <li>Data Engineer</li> </ul>	<ul style="list-style-type: none"> <li>Data Analyst</li> <li>Junior Big Data Engineer</li> </ul>
Infrastructure & Cloud	<ul style="list-style-type: none"> <li>Network / Infra support</li> </ul>	<ul style="list-style-type: none"> <li>Network Engineer</li> <li>Systems Engineer</li> <li>Cloud Engineer</li> </ul>
Ops & Support	<ul style="list-style-type: none"> <li>Technical Support / Incident Management/ Database Administrator</li> </ul>	<ul style="list-style-type: none"> <li>Possible reskilling into tech-heavy job roles<sup>1</sup> over time</li> </ul>
Other tech-lite roles <sup>2</sup>	<ul style="list-style-type: none"> <li>Digital Marketing</li> </ul>	<ul style="list-style-type: none"> <li>Progression into senior non-tech centric roles</li> </ul>

Several employers have leaned forward to provide a significant number of employment, apprenticeship or internship opportunities for Polytechnic and ITE students and graduates:

- Accenture
- DBS
- Ensign
- GovTech
- IBM
- Inspire-Tech
- NCS
- PSA Corporation
- Singtel
- ST Engineering

<sup>1</sup> Specialised roles that develop, implement and maintain complex technological solutions and applications. Examples include software engineers, data scientists and AI engineers.

<sup>2</sup> Roles that involve the use of foundational digital solutions and do not require specialised or advanced IT skills, such as digital marketing managers, sales specialists, and IT support technicians.

## Annex B: Work-Study Programme

SkillsFuture Work-Study Programmes (WSPs) provide opportunities for Singaporeans to pursue a work-study at different levels, from Diploma to Degree. These programmes closely interconnect theory and practice, through a combination of institutional learning and structured on-the-job training. They provide a training modality with a direct nexus with industry, and benefit individuals who prefer more hands-on and skills-based learning.

The table below summarises the key features of the different types of WSPs:

Type	Description of programme
<b>WSDip</b>	<p><b>To provide trainees a hands-on, skills-based and apprenticeship-based training pathway culminating in a Work-Study Diploma issued by ITE</b></p> <ul style="list-style-type: none"> <li>• Ranges from 2.5 to 3 years, depending on the level of study, sector, job and training requirements</li> <li>• Targets fresh Singaporean ITE graduates within <u>3 years</u> of their graduation or ORD.</li> <li>• The WSDip curricula comprises significant (70% of total curriculum time) structured on-the-job training (OJT) at partner companies' workplaces; and classroom- or institution-based training in ITE. WSDip trainees are full-time employees of WSDip partner companies and receive a salary pegged at the Nitec/Higher Nitec-level for the duration of their course.</li> <li>• WSDip trainees will benefit by acquiring relevant work experience and skills valued by the industry, attain a Work-Study Diploma qualification, and receive a sign-on incentive of S\$5,000.</li> <li>• Participating employers will be eligible for grants up to a cap of \$15,000 per participant within <u>5 years</u> of the participant's graduation from ITE or polytechnics.</li> </ul>
<b>WSPostDip</b>	<p><b>To provide polytechnic graduates a head start in careers related to their discipline of study and build on the skills and knowledge they acquired in school and support their transition into the workforce</b></p> <ul style="list-style-type: none"> <li>• Ranges from 12 to 18 months, depending on the level of study, sector, job and training requirements</li> <li>• Targets fresh graduates within <u>3 years</u> of their graduation or ORD.</li> <li>• Polytechnic graduates will undergo structured workplace learning, mentorship and facilitated learning by participating employers to get a head-start in their careers related to their discipline of study.</li> <li>• Polytechnic graduates will benefit by acquiring relevant work experience and skills valued by the industry, attain a Post-Diploma qualification and receive a sign-on incentive of S\$5,000.</li> </ul>

Type	Description of programme
	<ul style="list-style-type: none"> <li>Participating employers will be eligible for grants up to a cap of \$15,000 per participant within <u>5 years</u> of the participant's graduation from ITE or polytechnics</li> </ul>
<b>WSDeg</b>	<p><b>To provide Polytechnic, 'A' level graduates and in-service employees a work-study pathway at the degree level which features increased employer involvement with at least 30% of the programme duration set aside for structured on-the-job training at the workplace</b></p> <ul style="list-style-type: none"> <li>Ranges from 3 to 4 years, depending on the course of study and training requirements of the base degree programme before they can be placed on the work-study track of the programme.</li> <li>These programmes feature increased employer involvement with a significant proportion of the programme duration set aside for structured on-the-job training at the workplace, and see companies and universities co-design and co-deliver curricula that closely interconnect theory and practice, as well as co-assess students' performance at the workplace.</li> <li>WSDegs can be delivered through different modalities, including (a) Term-in/Term-out: students alternate between spending 1 – 2 terms (or trimesters) in university and at the workplace; or (b) Work-day/Study-day: students alternate between working a few days at the company, and studying in university for the remaining days of the week.</li> <li>Students will benefit by gaining a strong grounding of theory in real work environment which enhances their job-readiness upon graduation.</li> </ul>
<b>WSCert (Modular Certificate and WSQ Certificate)</b>	<p><b>To provide individuals work-study opportunities which lead to either WSQ Certificates, or Modular Certificates that are stackable towards a part-time diploma</b></p> <ul style="list-style-type: none"> <li>Ranges from 12 to 18 months, depending on the level of study, sector, job and training requirements, the programme is designed to give participants a head-start in careers related to their discipline of study.</li> <li>Participating employers can recruit local graduates and prepare them to take up suitable job roles. The programme is designed in collaboration with industry to ensure relevance to employers in the sector.</li> <li>Targets Singaporeans and Singapore Permanent Residents who are within <u>3 years</u> of graduation from the ITE and Polytechnics or the Operational Ready Date (ORD).</li> <li>Individuals will benefit by acquiring relevant work experience and skills valued by the industry, attain an industry-recognised certificate, receive a sign-on incentive of S\$5,000 and potentially enjoy skills-based wage increments and career advancement pathways upon programme completion, depending on factors such as satisfactory job performance and job scope expansion.</li> </ul>

For more information, visit <https://www.skillsfuture.gov.sg/workstudy>.

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