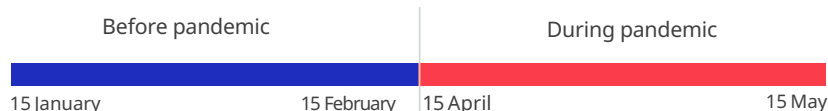




Rapid Assessment of information and communication technology skills demands in Indonesia 2020

This Rapid Assessment of information and communication technology (ICT) skill demands was conducted by analysing available ICT job vacancies and direct surveys of companies.

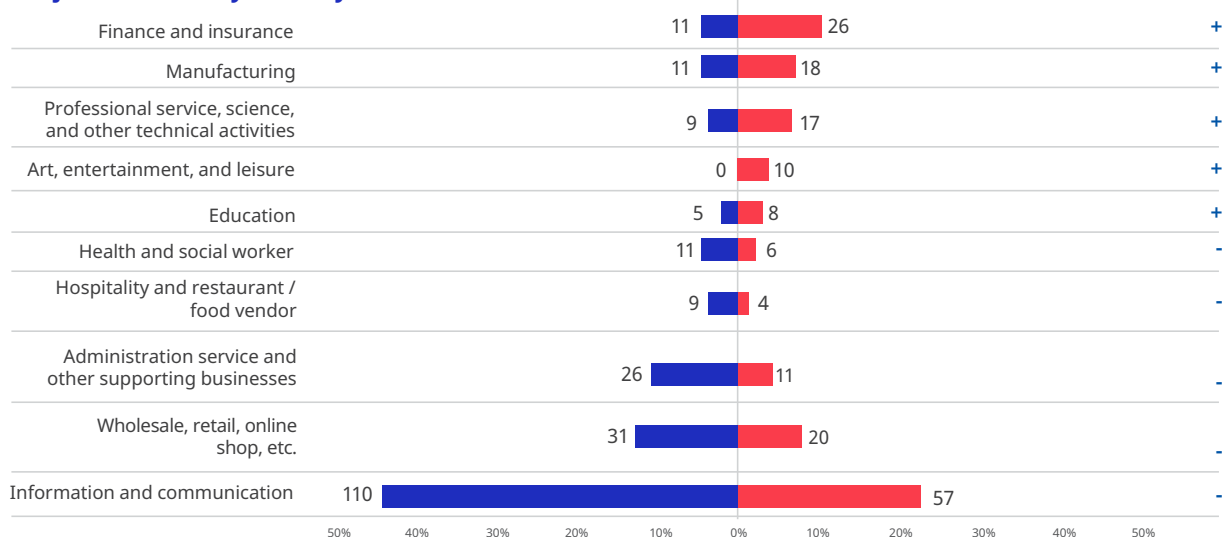
Data collection period



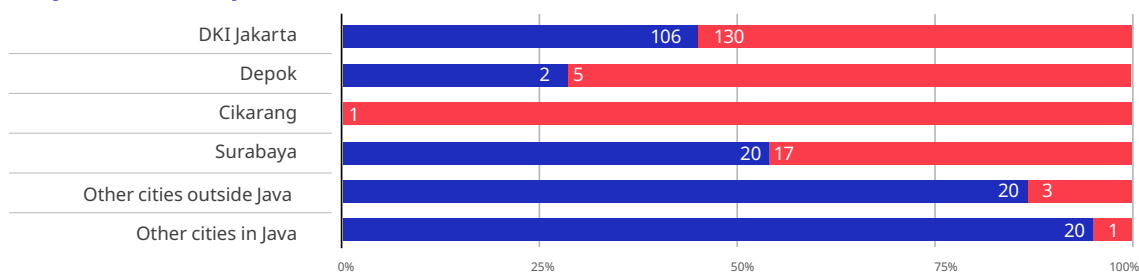
436 ICT job vacancies



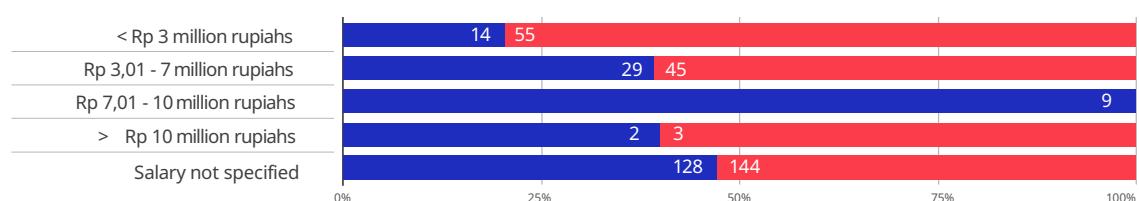
ICT job vacancies by industry



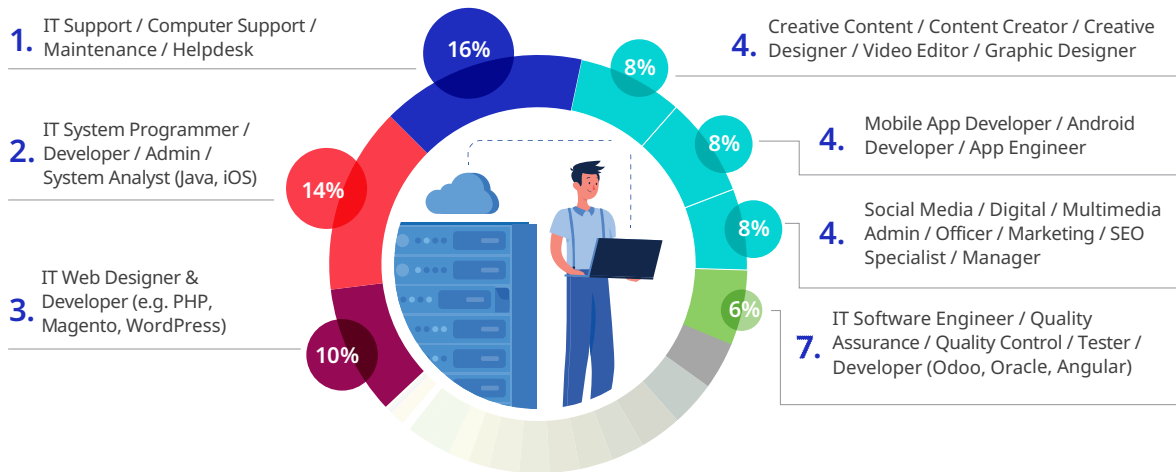
ICT job vacancies by location



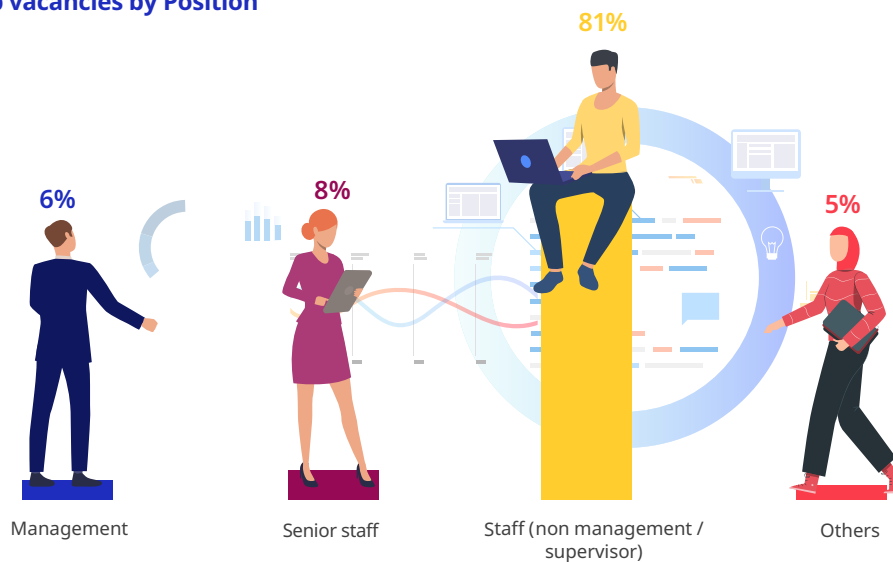
ICT job vacancies by salary



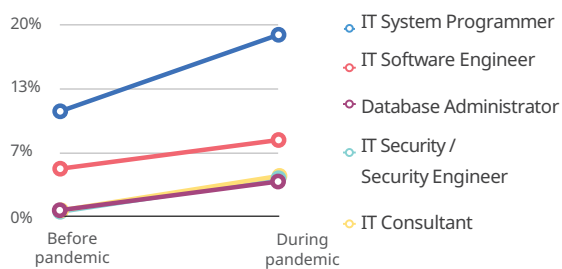
► Top 5 ICT job vacancies by job title



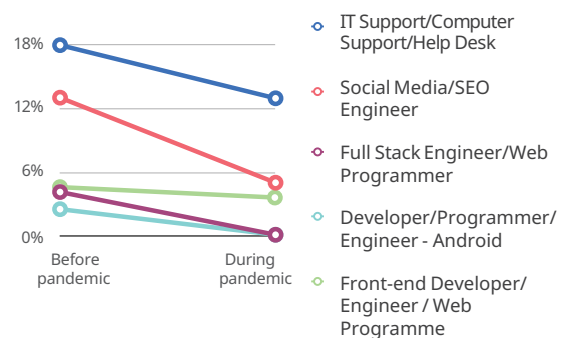
► ICT job vacancies by Position



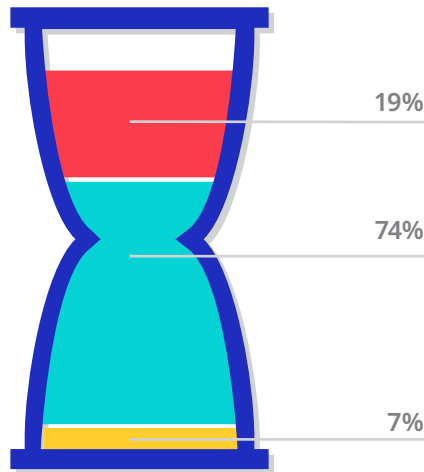
► Five ICT jobs with greatest increase in demand during the pandemic



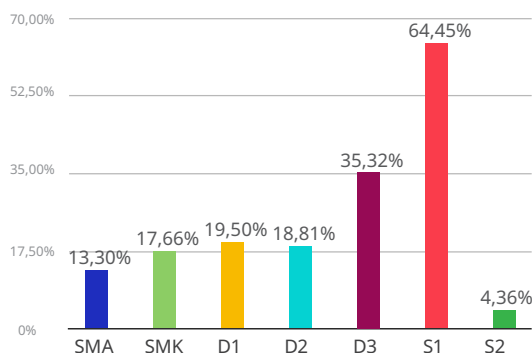
► Five ICT jobs with largest decrease in demand during the pandemic



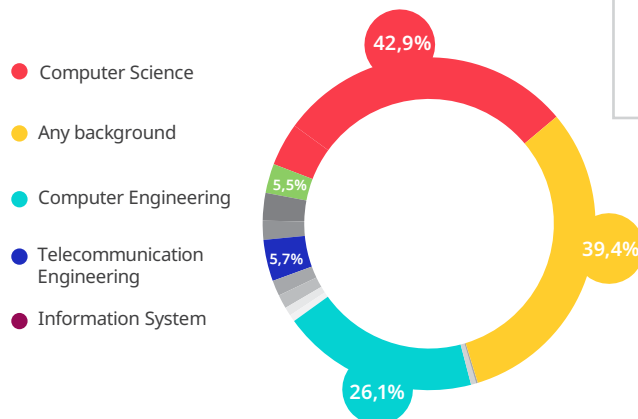
► ICT job vacancies by experience level



► Minimum education requirement for ICT jobs*



► Majors of education requirement for ICT jobs*



► Position & location of jobs by experience level

INTERMEDIATE (2–10 Years Experience)

Most commonly available jobs:

IT Software Engineer / Quality Assurance / Quality Control / Tester / Developer (Odoo, Oracle, Angular) **20%**

IT System Programmer / Developer / Admin / System Analyst (Java, iOS) **15%**

IT Web Designer & Developer (e.g. PHP, Magento, WordPress) **10.1%**

Locations with highest job demand:

DKI Jakarta	72%
Surabaya	7%
Bandung	6%

BEGINNER (0–2 Years Experience)

Most commonly available jobs:

IT Support / Computer Support / Maintenance / Helpdesk **18%**

IT System Programmer / Developer / Admin / System Analyst (Java, iOS) **13.6%**

IT Web Designer & Developer (e.g. PHP, Magento, WordPress) **10.1%**

Locations with highest job demand:

DKI Jakarta	48%
DI Yogyakarta	11%
Surabaya	9%

APPRENTICE

Most commonly available jobs:

Creative Content / Content Creator / Creative Designer / Video Editor / Graphic Designer **28%**

IT Web Designer & Developer (e.g. PHP, Magento, WordPress) **13.8%**

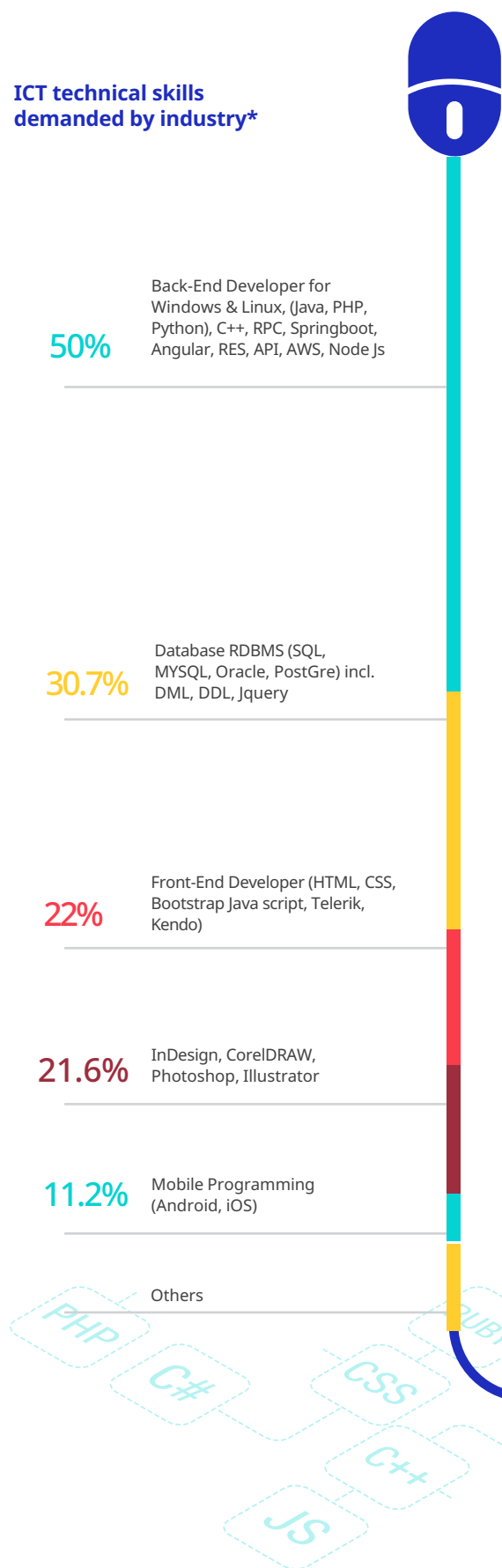
Social Media / Digital / Multimedia Admin / Officer / Marketing / Specialist / Manager **13.8%**

Locations with highest job demand:

DKI Jakarta	66%
DI Yogyakarta	10%
Tangerang	7%

*Vacancies may be open for applicants with different education backgrounds. The total number of vacancies being examined is 436. The percentages are based on that number. Therefore the total percentages if added up is more than 100%.

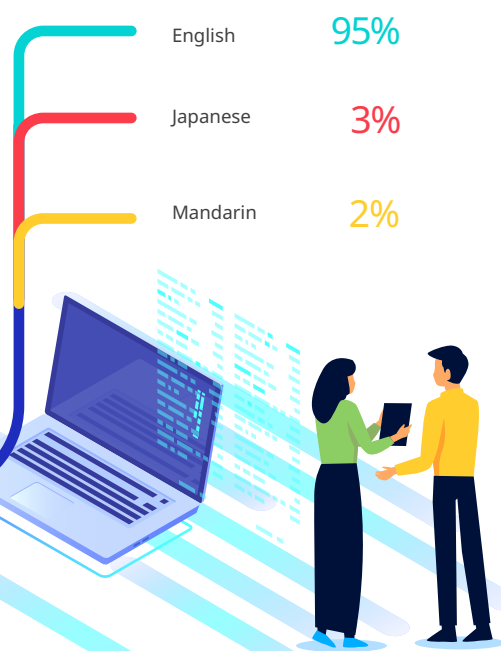
► ICT technical skills demanded by industry*



► Non-technical skills demanded by industry*



► Language skills demanded by industry



*Vacancies may require more than one skill. The total number of vacancies being examined is 436. The percentages are based on that number. Therefore the total percentages if added up is more than 100%.

Analysis of information and communication skills training in BBPLK BEKASI

ICT training programmes conducted by BBLK Bekasi versus ICT skills demanded by industry based on the Rapid Assessment



IT Software solution for business

(applicable in 53% of job vacancies)



Client server programming

(applicable in 50% of job vacancies)



Web development

(applicable in 48% of job vacancies)



Network professional

(applicable in 42% of job vacancies)



Cloud computing

(applicable in 42% of job vacancies)



Mobile programming

(applicable in 36% of job vacancies)



Graphic design

(applicable in 32% of job vacancies)



Computer technician

(applicable in 19% of job vacancies)



Database programming

(applicable in 16% of job vacancies)



Animation

(applicable in 8% of job vacancies)



Movie animation

(required in 8% of job vacancies)



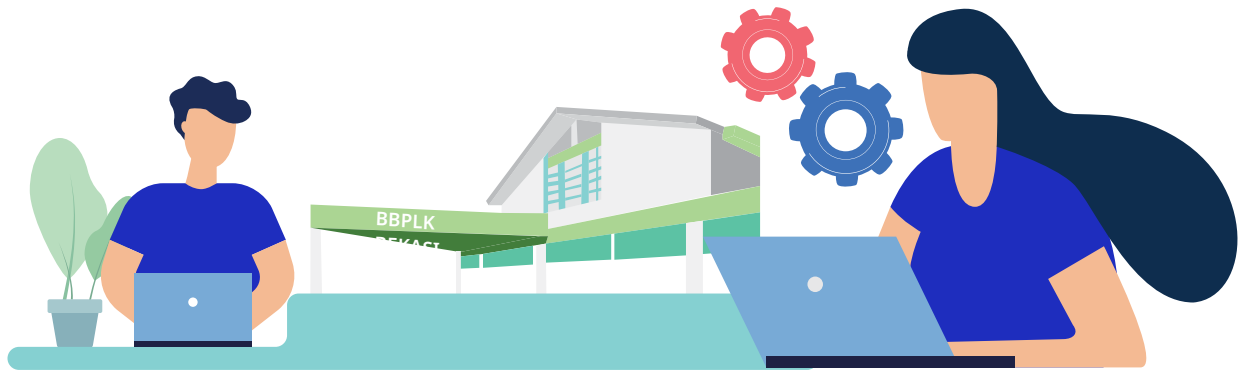
Warehouse

(required in 0% of job vacancies)

Job vacancies	Training programmes teaching required skills
IT SUPPORT	  
IT SYSTEM	     
IT WEB DESIGNER	   
SOCIAL MEDIA OFFICER	 
CREATIVE CONTENT / GRAPHIC DESIGNER	  



The table above shows that every job vacancy requires skills from **more than one training programme**



3

ICT jobs that can be held by High School/Vocational School graduates by optimizing ICT skills training at BBPLK Bekasi:



IT Support / Helpdesk



**Graphic Designer /
Content Creator**



Web Designer

2

new training courses recommended to be conducted by BBPLK Bekasi in order for BBPLK Bekasi to better meet market demand:



Java Developer

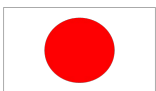
Job opportunities: Java Developer, Mobile Programmer (Android), Software Engineer, Back-End Developer



Front-end Developer

Job opportunities: JavaScript Developer, Full Stack Developer, Front-end Developer, Web Designer & Developer

Supported by:



ILO/Japan
Multi-bilateral
Programme



FAST RETAILING

► ilo.org/jakarta