International Labour Organization

▶ Research Brief

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Gen AI, occupational segregation and gender equality in the world of work

Key points

▶ Generative artificial intelligence (Gen AI) is evolving at an unprecedented pace, creating both opportunities and challenges for employment, productivity and working conditions. Its impacts are not gender-neutral, often shaped by persistent inequalities between women and men in access to decent work, leadership and economic opportunities.

▶ In countries with available data, female-dominated occupations, such as business administration and clerical support, are almost twice as likely to be exposed to Gen AI as male-dominated ones such as construction, manufacturing and trade (29 versus 16 per cent). They also face much higher automation risk (16 per cent for female vs. 3 per cent of male-dominated occupations).

▶ Exposure to Gen AI varies widely across regions and income levels. In high-income countries, 41 per cent of jobs are exposed, compared to 11 per cent in low-income countries. These gaps reflect differences in occupational structures and sectoral composition, digital readiness and skills.

▶ Women are more exposed to Gen AI than men in 88 per cent of countries in the sample (see footnote 2). The highest levels of exposure (over 40 per cent of female workers) is found in small island countries in the Pacific and the Caribbean, as well as in European countries such as Switzerland and the United Kingdom, and in the Philippines. This can be likely attributed to a higher share of women in the services sector and the rapid expansion of AI in these economies.

▶ The higher exposure of women is closely linked to entrenched occupational segregation and the systemic barriers that sustain it. Discriminatory social and legal norms and biases in recruitment, promotion and workplace practices, and macroeconomic and sectoral policies often shape labour markets in ways that have implications for women's equality of opportunities and treatment.

▶ Gen AI is expected to drive job growth in tech-intensive sectors, yet women remain underrepresented in STEM and AI, making up only 30 per cent of the AI workforce globally. Gaps in access, skills and use are compounded for women facing intersecting inequalities while underrepresentation in AI development, risks perpetuating gender-bias in technologies and deepening the digital divide.

▶ The more widespread impact of Gen AI lies in the quality of employment rather than quantity through its reshaping of tasks, work organisation and skills. It can intensify workloads, reduce autonomy and introduce bias. Yet Gen AI also has the potential to improve job quality by easing physical demands, supporting well-being and enhancing workplace safety and equality, including at enterprise level. This requires Gen AI be designed inclusively and supported by strong labour market institutions and social dialogue.

▶ The policy choices made now will determine whether GenAI drives greater equality or entrenches disparities in the world of work, and whether opportunities are seized or lost. Embedding gender equality in the design, deployment and governance of GenAI, tackling the drivers of occupational segregation, and ensuring women's representation in AI-related roles are essential. Social dialogue is fundamental to ensuring that technological transformations enhance working conditions and advance an inclusive world of work.

Why a focus on Gen AI and gender equality?

Generative artificial intelligence (Gen AI) has entered the lives of many workers and impacted enterprise operations across the globe, evolving at an unprecedented pace, both in its technological capabilities and its adoption across occupations and sectors. This transformation brings significant opportunities for productivity gains, innovation and job creation while also raising questions about its effects on employment, task shifts, and working conditions.

Early studies have revealed that the impacts of Gen AI will not be uniform. They will differ across economies based on their income levels and employment structures as well as between groups of workers, often reflecting existing inequalities in labour markets and societies (Gmyrek et al., 2023, 2024 & 2025; Lewandowski et al., 2025). Women and men often work in different occupations, with unequal access to decent work, leadership positions and economic opportunities. These disparities shape how they are likely to be affected by technological change—both in terms of opportunities and risks.

This research brief seeks to provide a global and regional overview of how Gen AI may affect gender equality in the world of work. It draws on new evidence from the ILO's harmonized microdata collection and applies an ILO index of occupational exposure to Gen AI. By analysing occupational structures through a gender lens, it provides a more detailed and nuanced picture of the potential impacts of Gen AI on women and men around the world.

The brief is organised in two sections. The first section presents key findings on the interaction between occupational segregation, Gen AI exposure and impact on gender equality at the global and regional levels. The second section unpacks these findings and discusses the wider implications of Gen AI for gender equality in the labour market.[1]

A brief description of the methodology

This brief uses the ILO-NASK global index of occupational exposure to Gen AI (Gmyrek et al., 2025) to analyse the potential impacts of Gen AI on gender equality in the world of work.

The index is constructed at the task and occupational level: tasks within occupations are scored for their potential exposure to Gen AI, drawing on a combination of worker surveys, expert validation, and AI modelling. These scores are then aggregated to the level of occupations (ISCO-08, 4-digit) and classified along a continuous gradient of exposure, from low to high.

The gradient categories can be summarized as follows:

▶ **Minimal/no occupational exposure.** These are occupations in which tasks cannot be done at all, or only minimally, with Gen AI technology. Many of these occupations consist of manual work.

▶ **Gradient 1** represents occupations with low overall Gen AI exposure and significant variability across tasks. While some tasks within these roles may be automatable, the occupation has many tasks that require humans, and thus these occupations are more likely to be "augmented" by AI.

▶ **Gradient 2** includes occupations with moderate Gen AI exposure and a mix of highly exposed and minimally exposed tasks, resulting in uneven impacts where some tasks may be disrupted while others remain unaffected, potentially allowing for augmentation.

▶ **Gradient 3** captures occupations where a significant portion of tasks are exposed to Gen AI, signalling growing automation risks and requiring adaptation strategies for workers.

▶ **Gradient 4** concerns occupations with a concentration of tasks that have high potential automation scores, thus making them most likely to face potential redundancy.

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[1] Throughout the report 'employment' refers to all working modalities – wage workers and non-wage workers.

Exposure to Gen AI (gradients 1-4) does not mean necessarily a technologically induced job redundancy in the near future. Risk of full automation is mostly associated with gradient 4 and even for these occupations, the process should not be assumed as automatic.

To understand how this occupational exposure translates into differences between women and men, the index is applied to employment data from the ILO's harmonized microdata collection, which provides the gender composition of employment across occupations in 84 countries[2]. This allows a comparison of exposure across:

- **Occupational categories**: female-dominated, male-dominated, and mixed occupations (those with important shares of both women and men in the occupation);

- **Employment outcomes**: the share of women and men employed in occupations with different exposure levels;

- **Regional and country patterns**: differences arising from sectoral and occupational structures, levels of digital readiness, and labour market composition.

In this way, the analysis first establishes exposure at the level of occupations, then examines how the distribution of women and men across these occupations results in different levels of potential exposure across countries and regions (Gmyrek et al., 2025).

Female-dominated occupations are defined as those with a female share in employment of at least 75 per cent in at least 25 per cent of countries. Male-dominated occupations are defined as having a female share in employment of less than 25 per cent across the same proportion of countries with reliable data, (Hegewisch and Liepmann, 2013).

Main findings

Occupational segregation persists in the labour market

Understanding which occupations are dominated by women and men in the labour market is essential to anticipating and addressing the differential impacts of Gen AI.

According to the criteria identified in Hegewisch and Liepmann (2013), and for countries where data are available, **among the 436 occupations** (unit groups at the 4-digit ISCO-08), **82 occupations (19 per cent) are female-dominated, 89 occupations (20 per cent) are male-dominated, while the remaining 266 occupations (61 per cent) are mixed** (important presence of both women and men).

Grouped in six clusters (See Figure 1), female-dominated occupations are prominent in the following sectors: health and care, teaching, social work and culture, business administration and clerical support, personal services, sales and food preparation, and finally, textiles and wearing apparel manufacturing (see Figure 1).

Men are instead concentrated in construction, building, manufacturing and trade as well as in occupations relating to science and engineering, information and communication technologies, protective services, drivers, and agriculture workers. Male-dominated occupations also include some chief executives, senior officials and armed forces (See Figure 2).

The remaining occupations (266) are considered "mixed", in that there is an important presence of both women and men. These include occupations across all exposure gradients ranging from hotel managers (gradient 1) to call centre workers (gradient 4), as well as occupations that are not exposed to Gen AI technology.

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[2] A minimum sample size requirement was applied at the occupational level to ensure that results were not driven by individual country contexts. Specifically, for an occupation to be included in the analysis, data needed to be available for at least nine countries—representing over 10 per cent of the 84 countries with reliable 4-digit ISCO data.

Consequently, while the overall dataset covers 84 countries, not all occupations met this minimum coverage criterion, particularly once data were disaggregated by sex.

Gen AI, occupational segregation and gender equality in the world of work

▶ **Figure 1: Female-dominated occupations**
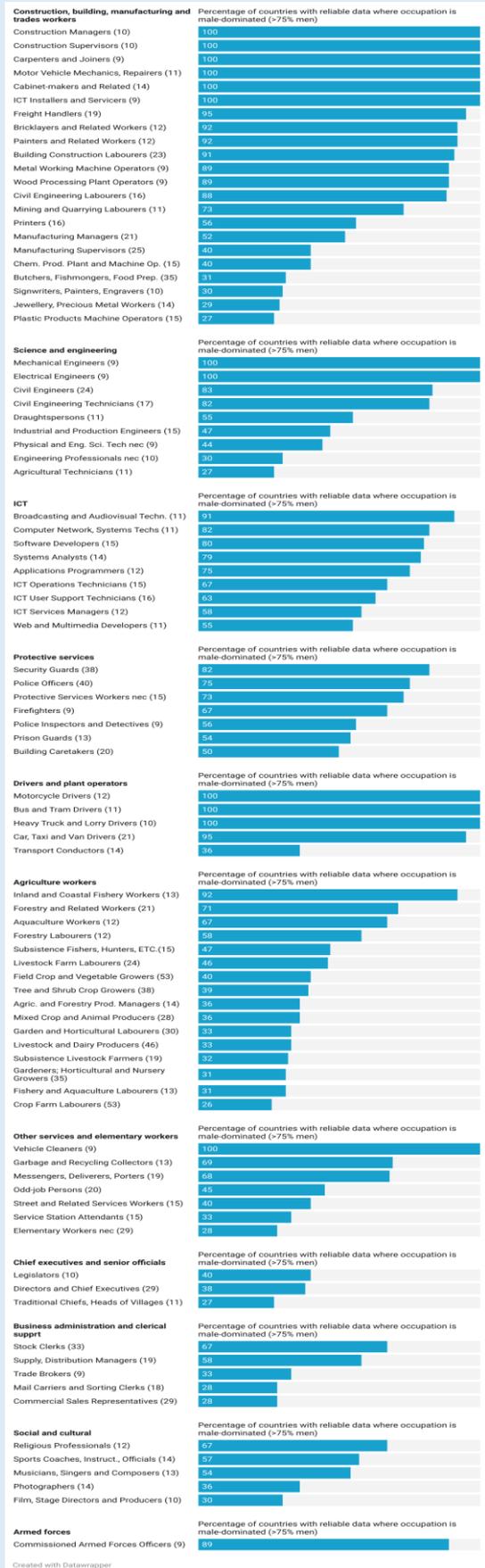
Health and care — Percentage of countries with reliable data where occupation is female-dominated (>75% women)

Occupation	%
Child Care Workers (43)	100
Midwifery Professionals (19)	95
Dieticians and Nutritionists (12)	92
Midwifery Associate Professionals (12)	92
Child Care Services Managers (11)	91
Audiologists and Speech Therapists (10)	90
Domestic Cleaners and Helpers (66)	86
Home-based Personal Care Workers (32)	84
Teachers Aides (29)	79
Nursing Professionals (55)	75
Nursing Associate Professionals (43)	74
Domestic Housekeepers (27)	74
Physiotherapy Techn. and Assistants (15)	73
Medical Assistants (15)	67
Health Care Assistants (35)	63
Pharmaceutical Techn. and Assistants (23)	57
Dental Assistants and Therapists (20)	55
Pharmacists (30)	47
Personal Care in Health Serv nec (22)	45
Physiotherapists (14)	43
Community Health Workers (21)	43
Medical and Pathology Lab Tech (29)	41
Medical Records and Health Info. Tech (10)	40
Health Services Managers (18)	33
Health Professionals nec (18)	33
Traditional Medicine Professionals (10)	30
Generalist Medical Practitioners (40)	25
Health Associate Professionals nec (12)	25

Teaching — Percentage of countries with reliable data where occupation is female-dominated (>75% women)

Occupation	%
Early Childhood Educators (55)	96
Special Needs Teachers (26)	77
Primary School Teachers (77)	55
Other Language Teachers (24)	50
Teaching Professionals nec (34)	32
Education Methods specialists (26)	27

Social work and culture — Percentage of countries with reliable data where occupation is female-dominated (>75% women)

Occupation	%
Psychologists (22)	86
Librarians and Inform. Professionals (21)	62
Social Work and Counselling Profess. (29)	59
Social Work Associate Professionals (25)	36
Archivists and Curators (9)	33
Translators, Interpreters and Linguists (18)	33

Business administration and clerical support — Percentage of countries with reliable data where occupation is female-dominated (>75% women)

Occupation	%
Medical Secretaries (15)	87
Secretaries (general) (46)	83
Receptionists (general) (38)	63
Typists and Word Processing Op. (10)	50
Library Clerks (20)	50
Payroll Clerks (17)	47
Admin and Executive Secretaries (47)	47
Accounting and Bookkeeping Clerks (43)	42
Legal Secretaries (12)	42
Accounting Associate Professionals (36)	39
Government Social Benefits Officials (12)	33
Personnel and Careers Professionals (25)	32
Client Information Workers nec (16)	31
Survey, Market Research Interviewers (17)	29
Telephone Switchboard Operators (22)	27

Personal services, sales and food preparation — Percentage of countries with reliable data where occupation is female-dominated (>75% women)

Occupation	%
Beauticians and Related Workers (47)	89
Hand Launderers and Pressers (33)	85
Cashiers and Ticket Clerks (58)	59
Cleaners, Helpers in Offices, Hotels (75)	57
Cleaning, Housekeeping Supervisors (32)	50
Cooks (67)	46
Tobacco Preparers and Prod. Makers (11)	45
Kitchen Helpers (42)	45
Food Service Counter Attendants (27)	44
Fast Food Preparers (35)	43
Street Food Salespersons (49)	39
Hairdressers (52)	38
Food, Beverage Tasters and Graders (19)	37
Other Cleaning Workers (26)	35
Door-to-door Salespersons (29)	34
Fruit, Vegetable and Preservers (22)	32
Dairy Products Makers (17)	29
Water and Firewood Collectors (11)	27

Textiles and wearing apparel manufacruing — Percentage of countries with reliable data where occupation is female-dominated (>75% women)

Occupation	%
Sewing, Embroidery Workers (38)	76
Handicraft Workers in Textile, Leather (39)	67
Sewing Machine Operators (30)	63
Tailors, Dressmakers, Furriers, Hatters (57)	60
Handicraft Workers nec (21)	52
Laundry Machine Operators (20)	40
Weaving and Knitting Machine Op. (18)	33
Handicraft Workers in Wood, Basketry (31)	29
Product and Garment Designers (16)	25

Created with Datawrapper

Note: Sample size (number of countries with reliable data for the occupation) in parenthesis

Source: ILO harmonized microdata collection

▶ **Figure 2: Male-dominated occupations**

Construction, building, manufacturing and trades workers — Percentage of countries with reliable data where occupation is male-dominated (>75% men)

Occupation	%
Construction Managers (10)	100
Construction Supervisors (10)	100
Carpenters and Joiners (9)	100
Motor Vehicle Mechanics, Repairers (11)	100
Cabinet-makers and Related (14)	100
ICT Installers and Servicers (9)	100
Freight Handlers (19)	95
Bricklayers and Related Workers (12)	92
Painters and Related Workers (12)	92
Building Construction Labourers (23)	91
Metal Working Machine Operators (9)	89
Wood Processing Plant Operators (9)	89
Civil Engineering Labourers (16)	88
Mining and Quarrying Labourers (11)	73
Printers (16)	56
Manufacturing Managers (21)	52
Manufacturing Supervisors (25)	40
Chem. Prod. Plant and Machine Op. (15)	40
Butchers, Fishmongers, Food Prep. (35)	31
Signwriters, Painters, Engravers (10)	30
Jewellery, Precious Metal Workers (14)	29
Plastic Products Machine Operators (15)	27

Science and engineering — Percentage of countries with reliable data where occupation is male-dominated (>75% men)

Occupation	%
Mechanical Engineers (9)	100
Electrical Engineers (9)	100
Civil Engineers (24)	83
Civil Engineering Technicians (17)	82
Draughtspersons (11)	55
Industrial and Production Engineers (9)	47
Physical and Eng. Sci. Tech nec (9)	44
Engineering Professionals nec (10)	30
Agricultural Technicians (11)	27

ICT — Percentage of countries with reliable data where occupation is male-dominated (>75% men)

Occupation	%
Broadcasting and Audiovisual Techn. (11)	91
Computer Network, Systems Techs (11)	82
Software Developers (15)	80
Systems Analysts (14)	79
Applications Programmers (12)	75
ICT Operations Technicians (15)	67
ICT User Support Technicians (16)	63
ICT Services Managers (12)	58
Web and Multimedia Developers (11)	55

Protective services — Percentage of countries with reliable data where occupation is male-dominated (>75% men)

Occupation	%
Security Guards (38)	82
Police Officers (40)	75
Protective Services Workers nec (15)	73
Firefighters (9)	67
Police Inspectors and Detectives (9)	56
Prison Guards (13)	54
Building Caretakers (20)	50

Drivers and plant operators — Percentage of countries with reliable data where occupation is male-dominated (>75% men)

Occupation	%
Motorcycle Drivers (12)	100
Bus and Tram Drivers (11)	100
Heavy Truck and Lorry Drivers (10)	100
Car, Taxi and Van Drivers (21)	95
Transport Conductors (14)	36

Agriculture workers — Percentage of countries with reliable data where occupation is male-dominated (>75% men)

Occupation	%
Inland and Coastal Fishery Workers (13)	92
Forestry and Related Workers (21)	71
Aquaculture Workers (12)	67
Forestry Labourers (12)	58
Subsistence Fishers, Hunters, ETC.(15)	47
Livestock Farm Labourers (24)	46
Field Crop and Vegetable Growers (53)	40
Tree and Shrub Crop Growers (38)	39
Agric. and Forestry Prod. Managers (14)	36
Mixed Crop and Animal Producers (28)	36
Garden and Horticultural Labourers (30)	33
Livestock and Dairy Producers (46)	33
Subsistence Livestock Farmers (19)	32
Gardeners; Horticultural and Nursery Growers (35)	31
Fishery and Aquaculture Labourers (13)	31
Crop Farm Labourers (53)	26

Other services and elementary workers — Percentage of countries with reliable data where occupation is male-dominated (>75% men)

Occupation	%
Vehicle Cleaners (9)	100
Garbage and Recycling Collectors (13)	69
Messengers, Deliverers, Porters (19)	68
Odd-job Persons (20)	45
Street and Related Services Workers (15)	40
Service Station Attendants (15)	33
Elementary Workers nec (29)	28

Chief executives and senior officials — Percentage of countries with reliable data where occupation is male-dominated (>75% men)

Occupation	%
Legislators (10)	40
Directors and Chief Executives (29)	38
Traditional Chiefs, Heads of Villages (11)	27

Business administration and clerical supprt — Percentage of countries with reliable data where occupation is male-dominated (>75% men)

Occupation	%
Stock Clerks (33)	67
Supply, Distribution Managers (19)	58
Trade Brokers (9)	33
Mail Carriers and Sorting Clerks (18)	28
Commercial Sales Representatives (29)	28

Social and cultural — Percentage of countries with reliable data where occupation is male-dominated (>75% men)

Occupation	%
Religious Professionals (12)	67
Sports Coaches, Instruct., Officials (14)	57
Musicians, Singers and Composers (13)	54
Photographers (14)	36
Film, Stage Directors and Producers (10)	30

Armed forces — Percentage of countries with reliable data where occupation is male-dominated (>75% men)

Occupation	%
Commissioned Armed Forces Officers (9)	89

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Note: Sample size (number of countries with reliable data for the occupation) in parenthesis

Source: ILO harmonized microdata collection

Female-dominated occupations comprise an important share of female employment in high-income countries

Female-dominated occupations account for important shares of female employment in high-income countries, given the importance of occupations in health, education, social work, business administration and clerical support, in these economies (figure 3).

dominated occupations account for lower shares of female employment are primarily in Africa and in the Asia and Pacific region.

While male concentration in male employment is also important (accounting for 40 to 60 percent of total male employment), income and regional differences across countries are less striking (figure 4). This is because male-dominated occupations are spread more widely across clusters within all three broad economic sectors (agriculture, industry, and services) and male labour force participation is high regardless of country income level.

▶ **Figure 3: Female concentration in female-dominated occupations by region and income level**

Created with Datawrapper

Source: ILO harmonized microdata collection.

In lower-income countries, where larger shares of women are employed in agriculture or in low-productivity service industries (e.g., retail trade, food and accommodation, other services), the female-dominated clusters account for lower shares of female employment. This pattern reflects both lower overall female labour force participation and the earlier stage of structural transformation in these economies. As many women remain concentrated in subsistence farming or informal activities, they are less likely to be employed in the formal service sectors- such as health, education, or public administration- and occupations that are traditionally highly feminized in upper-middle and high-income countries. Countries where female-

▶ **Figure 4: Male concentration in male-dominated occupations by region and income level**

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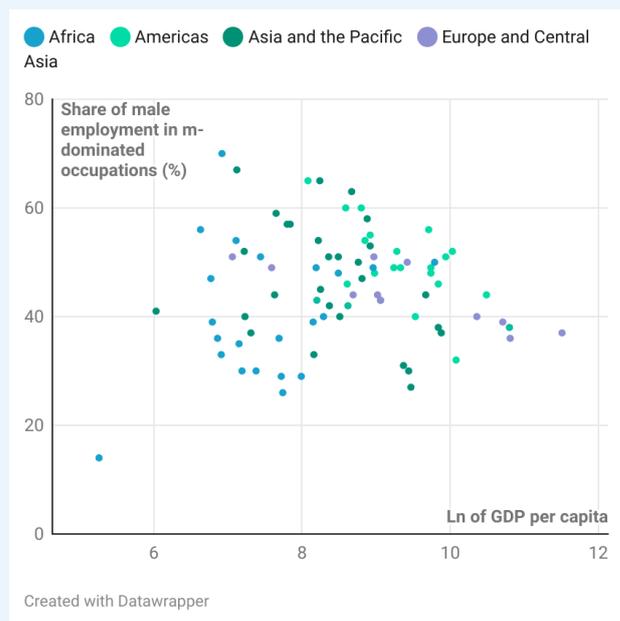
Source: ILO harmonized microdata collection.

Female-dominated occupations have higher exposure to Gen AI

A significantly higher proportion of female-dominated occupations (29 per cent) and mixed occupations (28 per cent) are exposed to Gen AI, compared to just 16 per cent of male-dominated occupations (see Figure 5). In other words, **female-dominated occupations are almost twice as likely to be exposed to Gen AI as male-dominated ones.** This figure, however, captures only part of total employment exposed to Gen AI (as discussed below) and should be interpreted in the

wider context of labour market exposure across countries.

▶ **Figure 5: Exposure to Gen AI for female-dominated, male-dominated and mixed occupations**
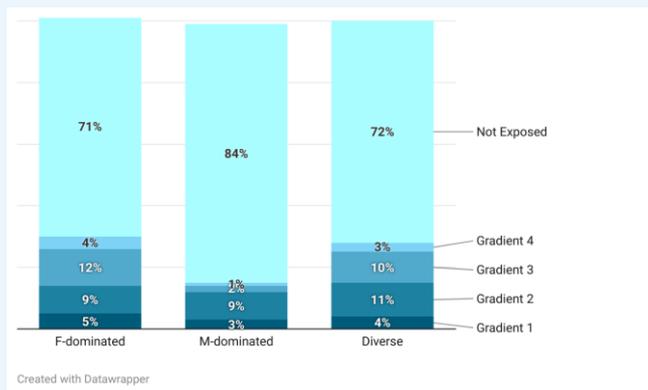
Source: ILO harmonised microdata collection

Female-dominated occupations are also more likely to have a higher degree of exposure to Gen AI with 16 per cent of occupations in gradient 3 and gradient 4, compared to 13 per cent for mixed occupations, and only 3 per cent for male-dominated occupations. These occupations have a significant portion of tasks that are at greater risk of exposure to AI-driven automation and require adaptation strategies that support both workers and enterprises in addressing these risks while leveraging technology for productivity and skills upgrading.

The female-dominated occupations that belong to these **high-exposure categories are primarily the ones under the business administration and clerical support cluster** (see Annex table 1). Specifically, female-dominated occupations in gradient 4 include for example typists and word processing operators, accounting and bookkeeping clerks and payroll clerks. Gradient 3 ones include secretaries, receptionists, librarians, translators and interpreters.

In contrast, the male-dominated occupations that are exposed in gradients 3 and 4 mostly fall under the ICT cluster. Such jobs comprise for example web and multimedia developers, software developers, and application programmers.

In terms of employment, exposure to Gen AI differs across the world

Countries in different regions and income brackets differ widely in their levels of exposure to Gen AI, largely due to differences in occupational structures and sectoral compositions, as well as access to digital infrastructure, firm-level readiness and foundational skills of individuals.

Overall, **41 per cent of employment is potentially exposed to Gen AI technology in high-income** countries compared with just **11 per cent in low-income countries**. Furthermore, 9.6 per cent of employment in high-income countries is in the category of highest exposure to automation by Gen AI (Gradient 4), compared to just 0.3 per cent in low-income countries (Gmyrek et al., 2025).

In general, advanced economies have higher exposure to Gen AI as a result of greater diversification of their economies and thus occupations. Specifically, low exposure to Gen AI in low- and middle-income countries primarily reflects the sectoral composition of their economies, where employment remains concentrated in agriculture and lower productivity services, rather than an absence of digital connectivity. In addition, task content tends to differ within same occupations located across high- and low-income countries (Lewandowski, 2025, Gmyrek et al., forthcoming).

Women in employment are more exposed than men to Gen AI

Considering all four exposure gradients, women are more exposed overall to Gen AI than men in most (88 per cent) of countries in the sample. Small island countries in the Pacific and in the Caribbean, followed by European countries (Bosnia and Herzegovina, Switzerland, United Kingdom) and the Philippines (figure 6) is where women have the highest levels of exposure to Gen AI (over 40 per cent of total female employment). **Overall, Europe and Central Asia and Latin America and the Caribbean are the two regions with the highest levels of exposure for female workers on average, while Africa and Asia have the lowest exposure.**

The few countries where women are less exposed

to Gen AI than men include countries with higher prevalence of agricultural employment (e.g., Burundi, Tanzania) sometimes also combined with low female labour force participation (e.g., Afghanistan, Bangladesh, Iraq, Pakistan, Sudan). Countries where men have relatively high exposure (although still lower than among women) include some countries in Europe (Switzerland and the United Kingdom), Asia (Maldives) and some Arab States (Lebanon, United Arab Emirates).

For most occupations, the **more widespread impact of Gen AI lies in the transformation of work and working conditions**. In many cases, Gen AI is likely to reshape tasks within occupations, change work organisation and processes, or modify supervision and performance management. It is also likely to alter the skills required to perform certain jobs, as it gets integrated into digital tools that workers are required to use to perform their duties. For most jobs, these technological changes are more likely to reshape responsibilities and affect the quality of employment, rather than eliminate their current tasks altogether.

▶ **Figure 6: Percentage of female and male employment in exposure gradients 1-4 by country**
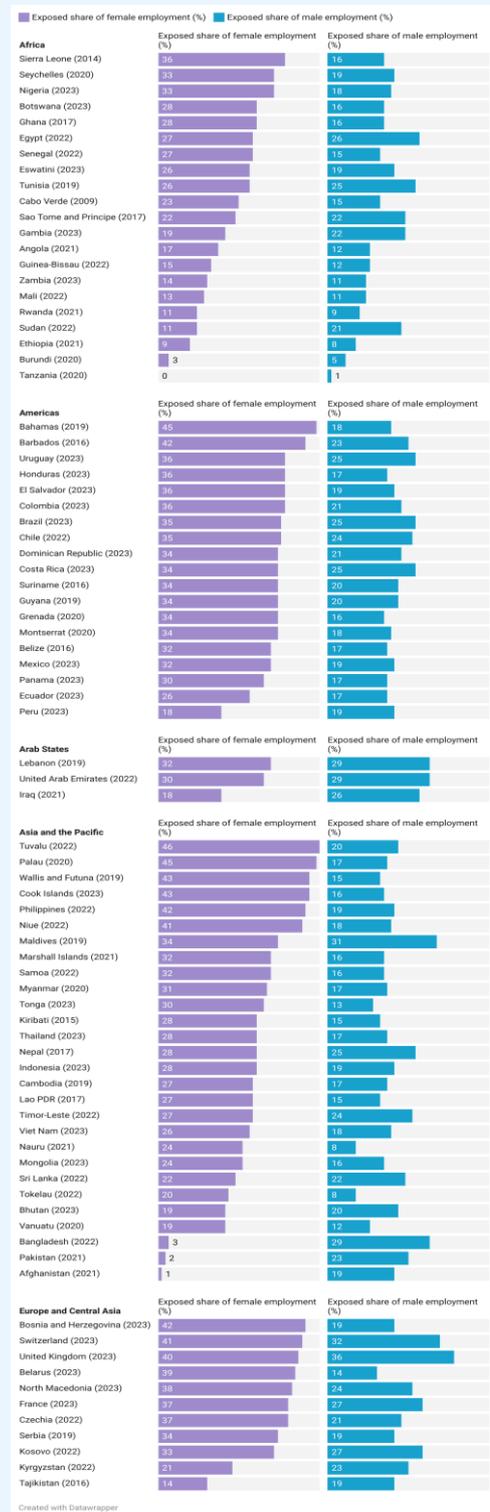
Note: Latest year available in parenthesis
Source: ILO harmonized microdata collection

Unpacking the findings: occupational segregation, systemic barriers, and AI underrepresentation

The higher exposure of women to Gen AI reflects the persistent and gendered patterns of occupational segregation that continue to shape labour markets globally. Technologies, including Gen AI, are not inherently neutral, but are embedded within and shaped by societal structures and relations (Spencer, 2018). Past waves of technological change have shown how, rather than disrupting gendered patterns and divisions of labour, technology can reproduce them in new forms (Howcroft and Rubery, 2019).

This section unpacks how these patterns are reinforced by structural and institutional factors, including discriminatory social norms, intensive and unequal unpaid care and domestic work, and economic and labour market policies that do not fully address the different needs of both women and men. The under-representation of women in Gen AI employment and development can also influence how technologies are designed and deployed, with direct consequences for both the quality and quantity of their employment.

Drivers of occupational segregation

While there has been an increase of women in professional roles in the last two decades, they continue to be overrepresented in clerical and administrative roles, which are highly exposed to Gen AI automation (Gmyrek et al., 2023 & 25). Women are also more likely than men to perform **routine cognitive and codifiable tasks, which are at a higher risk of substitution by Gen AI** across all sectors and occupations, and less likely to have analytical and abstract tasks, which are more likely to be complemented by this technology (Brussevich et al., 2019). These disparities also reflect patterns of vertical segregation, with **women less likely to occupy senior or decision-making roles** within the same occupational categories (ILO, 2019). As a result, women's employment may be more affected by technology in specific occupations or tasks.

Studies find that in advanced and emerging economies, the share of routine and automatable

tasks is higher among older women and those with lower levels of education (Brussevich et al., 2019). In contrast, in low- and middle-income countries, Gen AI exposure tends to be higher among women, more educated workers and those in urban areas, who tend to demonstrate higher digital readiness and greater access to infrastructure (Demombynes et al., 2025, Gmyrek et al., 2024).

At the same time, women are overrepresented in care-related occupations, which are less likely to be automated due to their reliance on social and interpersonal skills (ILO, 2018). However, there is increasing interest from both the public and the private sector in integrating such technologies in the care sector– for example, remote patient monitoring, automated charting and nursing care plans, and clinical prediction – given demographic changes, increasing care needs and budgetary pressures that have restrained staffing (O'Connor et al., 2023). Emerging evidence on the integration of AI in nursing reveals that if implemented without adequate consultation, training, interoperability or labour protections, AI can risk intensifying work, reinforcing existing hierarchies and inequalities, and creating new decent work deficits for a predominantly female workforce (ILO, forthcoming).

Occupational segregation is shaped by a range of intersecting and mutually reinforcing structural barriers affecting supply and demand side constraints. **These include social and legal norms that affect educational and occupational pathways.** Despite progress in recent years, legal restrictions continue to limit women's occupational choices in many countries, contributing not only to occupational segregation but also labour-market distortions and reduced innovation and productivity (Blau and Kahn, 2017). In 2023, 21 economies limited a women's ability to work at night, 49 prohibit women from working in hazardous jobs, and 65 bar women from working in the same industries as men (World Bank, 2023).

Persistent gender stereotypes continue to shape expectations around what constitutes appropriate work for women and men (Carranza, Das, and Kotikula 2023). These include beliefs that women are naturally more caring, more suited to repetitive or household-related tasks, have lower aptitude in science or mathematics or less leadership potential. These same norms often associate men with technical, managerial and decision-making roles,

while positioning women in nurturing, administrative or supportive roles (Anker, 1997).

These norms can be reinforced through biases and discrimination in workplace practices including **recruitment**, **promotion, training opportunities and organizational culture**. For instance, job postings can reflect and reproduce gender norms, discouraging women from applying or channelling them into certain occupations, while selection processes may favour male applicants even with identical qualifications. In fact, when used as a source of labour market information, Gen AI tools can reinforce such stereotypes, as they can replicate gendered perceptions of occupational segregation, appropriate remuneration, or the prestige associated with typically male- or female-dominated jobs (Gmyrek, Lutz and Newlands, 2025).

In addition, women's entry into and retention in male-dominated occupations, as well as their promotion prospects, may be further constrained by workplace factors when characterized by long and inflexible working hours, violence and harassment and unequal access to training, skills upgrading and leadership roles (Carranza et al., 2023).

The **intensive and unequal unpaid care and domestic work** done by women further constrains their time, mobility and occupational choices. Globally, women perform more than three-quarters of total unpaid care work, on average 3.2 times more than men (ILO, 2018). Recent ILO estimates reveal that care responsibilities are the primary contributor to the gender employment gap. Indeed, excessive and unequal care responsibilities keep 708 million women outside the labour force globally (ILO, 2025). This unequal distribution of care work often influences women's decisions to seek part-time or flexible employment arrangements to be able to accommodate care responsibilities. This limits their access to a broader range of occupations, contributes to their concentration in lower-paid and less secure jobs, and hinders their ability to access and remain in decent work (ILO, 2018).

In addition, **macroeconomic and sectoral policies** shape the structure of labour markets and influence the distribution of employment opportunities across sectors and occupations, with gendered effects. For example, tax systems that disincentivize secondary earners or reforms that affect sectors with high female employment can influence labour force participation (Carranza et al., 2023). Structural transformation, in which economies shift from lower- to higher-productivity sectors and where technological change often acts as a catalyst, can produce differentiated outcomes for women and men. Women are at risk of being concentrated in low productivity, low-paying and slow growing sectors in the absence of sectoral policies designed to generate decent and productive employment for both women and men (Esquivel 2019, ILO 2024).

Quality of employment also matters

For most occupations, the impact of Gen AI is more likely to be on the **transformation of work and working conditions rather than on net job losses.** Whether this leads to an improvement or a deterioration in working conditions will depend on how AI is introduced and managed and whether it is done through social dialogue. Strong labour market institutions, including employer and worker organizations, and sound employment protection frameworks play a crucial role in ensuring that technological change contributes to improved outcomes for all workers and enterprises (Giuntella et al., 2025). In addition, AI is increasingly being applied to advance gender equality at work, including through tools that detect bias in recruitment advertising, promote pay transparency, and support prevention and response to gender-based violence and harassment (Ramboll, 2020; EIGE, 2020).

Gen AI holds potential to improve job quality and productivity when applied responsibly. For example, AI systems may help reduce physical job intensity, support worker well-being, and enhance workplace safety—provided they are designed and implemented in an inclusive, rights-based and transparent manner (Giuntella et al., 2025, Karaferis et. al., 2025). Within enterprises, AI-driven tools have been used to optimize workflow management, improving efficiency and job satisfaction by streamlining administrative processes, enhancing communication and providing decision-support systems that allow workers to focus on higher-value and more creative tasks. For employers, such improvements contribute not only to better working conditions but also to gains in productivity, quality and employee retention (IOE, 2024).

Similarly, Gen AI can address or intensify existing inequalities in the world of work. Evidence from the health sector- where women represent the majority of the workforce- shows that despite low overall exposure of nursing occupations to Gen AI, integration of AI tools is taking place. Research shows that the newly introduced AI systems can rely on poor quality datasets that embed bias, increase workloads, and are often developed and implemented with little to no involvement of the nurses that are directly affected (O'Connor et al., 2023). Such trends highlight the importance of ensuring that AI tools are implemented with attention to how they interact with existing workflows and job roles while ensuring worker's right to decent work.

Underrepresentation of women in STEM and AI hinders equal opportunity and can perpetuate bias

While much analysis has emphasised the risks of job displacement related to Gen AI, this technology is also projected to be **a driver of employment creation and productivity in the world of work,** in tech-intensive sectors in particular (WEF, 2025). Research estimates that AI and information processing technology could lead to a net gain of around 2 million jobs— creating approximately 11 million roles while displacing 9 million (WEF, 2025). At the same time AI adoption has the potential to increase annual global productivity by between 0.2 and 3.3 percentage points (McKinsey & Company, 2023). For enterprises, this represents a major opportunity for growth and competitive advantage.

Evidence also shows, however, that GenAI carries potential environmental risks, with its rapid pace of innovation and growing demand for data and computational power placing increasing pressure on energy, water and other natural resources (UNEP, 2024). Ensuring that the jobs created through GenAI adoption contribute to—rather than impede—just and green transitions will therefore be essential.

Furthermore, **women continue to be underrepresented in STEM and AI jobs, and the design, and governance of AI systems**. This not only limits their ability to benefit from emerging opportunities but also constrains enterprises from fully leveraging women's talent and perspectives.

STEM skills are essential for both the development and informed use of AI technologies. Women have made significant progress in the attainment of STEM education. This reflects important efforts made by governments, employers and workers to promote women's STEM education, reskilling and upskilling. However, these gains have not translated into adequate advancements for women in the labour market as they have not been sufficiently complemented by measures to address structural and systemic barriers.

ILO estimates indicate that women account for around 40 per cent of STEM professionals globally, although their representation varies widely across countries. **Women's representation in STEM jobs also remains considerably lower in high-demand fields such as technology and engineering**, making up less than 10 per cent of engineers and software developers (ILOSTAT, 2023). Complementary data from LinkedIn suggests an even sharper gender gap in technology-intensive roles, with women representing only 29.2 per cent of STEM workers in 2022. Retention is also a critical concern: despite a growing number of women earning STEM degrees, a sharp 5.9 per cent decline in the retention of women in STEM was observed, just one year after graduating (WEF, 2023).

Gender gaps are also prevalent in AI employment, adoption and skills acquisition. Although some progress has been made, in 2022, women represented only 30 per cent of the AI workforce, a share that is roughly only 4 percentage points higher than in 2016 (WEF, 2023).

Evidence reveals that women's continued **underrepresentation in STEM and AI jobs is linked to systemic supply and demand side barriers.** These include, gender bias embedded in organisational cultures and practices (Newje, Makai and Ndubuisi, 2025), societal expectations around women and men's primary responsibilities and professional abilities (Eagly and Karau, 2002; Friedmann et al., 2022); inadequate flexible work arrangements and family-friendly policies that meet the needs of both women and men (Weisgram and Diekman, 2016). These barriers are further compounded for women facing multiple and intersecting forms of discrimination, including on the basis of race, ethnicity, class, migration status or disability, who encounter additional barriers in accessing digital tools, training and decent work opportunities (Fung et al., 2025; ILO, 2021).

Underrepresentation of women and marginalised groups in AI development and

adoption have important implications beyond preventing these groups from reaping the potential benefits of the technology. It can perpetuate **gender-biased technologies** and risks creating a vicious cycle in which exclusion from design leads to discriminatory outcomes that further discourage participation and deepen the digital divide (Gomez-Herrera & Koeszegi, 2022).

AI systems trained on unrepresentative and incomplete datasets, risk producing discriminatory outcomes. For instance, healthcare algorithms underestimate female patients' needs (Obermeyer et al., 2019), recruitment or hiring tools penalise female resumes (Dastin, 2018), and credit-scoring algorithms perpetuate gender disparities in lending decisions (Bartlett et al., 2022). Such risks are also compounded for groups facing multiple and intersecting forms of discrimination: AI-based hiring tools have been found to favour resumes with White-sounding names over those with Black-sounding names, with Black women often disadvantaged by this bias (Wilson & Caliskan, 2024). In addition, AI tools used to analyse written communication can embed negative stereotypes about disability, with potential consequences for recruitment, promotion and workplace monitoring (Hutchinson et al., 2020). Reviews of gender-biased AI systems deployed across sectors have found that the majority deliver poorer outcomes for women and distribute resources and opportunities unfairly, underscoring the urgency of more inclusive approaches to AI development (Smith & Rustagi, 2021).

Conclusions and emerging considerations

The expansion of Gen AI presents the opportunity for new jobs, greater productivity and improved working conditions for all. Technological transformation and gender equality are complementary goals. For these to be realised, a human-centred approach that places gender equality, social dialogue and the rights of all workers at the heart of the design, development and deployment of AI is needed.

This brief has shown that women are more exposed to the impacts of Gen AI than men, due to their concentration in occupations and tasks that are more susceptible to automation effects. Women are disproportionately concentrated in less senior, routine and codifiable roles, and less likely to perform abstract or high-autonomy tasks where AI acts as a complement rather than a substitute. Exposure is not uniform: it is higher in high-income economies and varies by region, with women workers in Europe and Central Asia and in Latin America and the Caribbean facing relatively greater exposure, while Africa and Asia face lower exposure.

At the same time, women remain underrepresented in AI-related occupations and likely decision-making processes around how technologies are developed and deployed. Gen AI systems trained on incomplete or biased data can reproduce and amplify gender inequalities, with consequences for recruitment, participation, promotion, pay, workplace monitoring and access to skills and resources. These risks are compounded for women at the intersections of multiple inequalities, such as race, ethnicity, or disability.

The implications of Gen AI for gender equality are not limited to job loss. In many cases, the greater impact lies in how work is transformed—reshaping tasks, workflows, and the conditions under which women engage with work.

These findings highlight the urgent need to embed gender equality in the design, deployment and governance of new technologies. Addressing these challenges requires deliberate action, including the development of debiasing techniques and more representative datasets to train learning models, alongside robust safeguards to prevent the reinforcement of gender stereotypes and biases in AI systems. Ensuring greater involvement of diverse stakeholders—particularly women and other underrepresented groups—in AI development is also essential to promote inclusive and equitable outcomes.

Broader efforts are likewise needed to address the structural drivers of gender inequality in labour markets including discriminatory gender norms, gender bias and discrimination in workplace practices, and the unequal distribution of unpaid care responsibilities.

Gender responsive macroeconomic, sectoral and active labour market policies including skills and learning systems that embed gender equality as a key objective, will be critical to expanding women's access to quality jobs and ensure that technological change generates more and better jobs for all. These need to be accompanied by comprehensive care leave policies, services and infrastructure that ensure greater gender equality in the world of work.

Technological change has the potential to support decent work and drive inclusive growth. Realising this potential will require sustained investment in gender-responsive digital transformation, alongside policies that

strengthen women's representation, voice and agency, including in social dialogue process, shaping the future of work. The choices made now will determine whether Gen AI becomes a driver of greater equality or a force that entrenches existing disparities – and whether opportunities are seized or lost.

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Acknowledgements

Annex table 1 Occupations that are exposed to Gen AI by category (female- or male-dominated or mixed)

Gradient 1	Gradient 2	Gradient 3	Gradient 4
Exposed female-dominated occupations (24 out of 82 occupations, 29%).			
2351 - Education Methods specialists	2423 - Personnel and Careers Professionals	2622 - Librarians and Related Information Professionals	4131 – Typists and Word Processing Operators
2634 – Psychologists	2621 – Archivists and Curators	2643 – Translators, Interpreters and Other Linguists	4311 – Accounting and Bookkeeping Clerks
3256 – Medical Assistants	3313 – Accounting Associate Professionals	3252 – Medical Records and Health Information Technicians	4313 – Payroll Clerks
5230 – Cashiers and Ticket Clerks	3353 – Government Social Benefits Officials	3342 – Legal Secretaries	
	4229 – Client Information Workers nec	3343 – Administrative and Executive Secretaries	
	4411 – Library Clerks	3344 – Medical Secretaries	
	5243 – Door-to-door Salespersons	4120 – Secretaries (general)	
		4223 – Telephone Switchboard Operators	
		4226 – Receptionists (general)	
		4227 – Survey and Market Research Interviewers	
Male-dominated occupations (12 out of 89 occupations, 16%).			
3431 – Photographers	1330 – ICT Services Managers	2512 – Software Developers	2513 – Web and Multimedia Developers
8322 – Car, Taxi and Van Drivers	2511 – Systems Analysts	2514 – Applications Programmers	
9621 – Messengers, Package Deliverers and Luggage Porters	3322 – Commercial Sales Representatives		
	3324 – Trade Brokers		
	3511 – ICT Operations Technicians		
	3512 – ICT User Support Technicians		
	3513 – Computer Network and Systems Technicians		
	4412 – Mail Carriers and Sorting Clerks		

Gradient 1	Gradient 2	Gradient 3	Gradient 4
Diverse occupations (74 out of 266 occupations).			
1411 - Hotel Managers	1219 - Business Services and Administration Managers nec	2112 - Meteorologists	2413 - Financial Analysts
2111 - Physicists and Astronomers	1221 - Sales and Marketing Managers	2120 - Mathematicians, Actuaries and Statisticians	3311 - Securities and Finance Dealers and Brokers
3141 - Life Science Technicians (excluding Medical)	1346 - Financial and Insurance Services Branch Managers	2411 - Accountants	3312 - Credit and Loans Officers
3411 - Legal and Related Associate Professionals	1420 - Retail and Wholesale Trade Managers	2412 - Financial and Investment Advisers	4110 - General Office Clerks

3433 - Gallery, Museum and Library Technicians	2131 - Biologists, Botanists, Zoologists and Related Professionals	2431 - Advertising and Marketing Professionals	4132 - Data Entry Clerks
4415 - Filing and Copying Clerks	2152 - Electronics Engineers	2433 - Technical and Medical Sales Professionals (excluding ICT)	4312 - Statistical, Finance and Insurance Clerks
5211 - Stall and Market Salespersons	2153 - Telecommunications Engineers	2434 - ICT Sales Professionals	4416 - Personnel Clerks
5223 - Shop Sales Assistants	2165 - Cartographers and Surveyors	2519 - Software and Applications Developers and Analysts nec	4419 - Clerical Support Workers nec
7321 - Pre-press Technicians	2166 - Graphic and Multimedia Designers	2521 - Database Designers and Administrators	5244 - Contact Centre Salespersons
9623 - Meter Readers and Vending-machine Collectors	2356 - Information Technology Trainers	2522 - Systems Administrators	
	2421 - Management and Organization Analysts	2523 - Computer Network Professionals	
	2424 - Training and Staff Development Professionals	2631 - Economists	
	2432 - Public Relations Professionals	2641 - Authors and Related Writers	
	2529 - Database and Network Professionals nec	2642 - Journalists	
	2632 - Sociologists, Anthropologists and Related Professionals	3314 - Statistical, Mathematical and Related Associate Professionals	
	2633 - Philosophers, Historians and Political Scientists	3321 - Insurance Representatives	
	2656 - Announcers on Radio, Television and Other Media	3331 - Clearing and Forwarding Agents	
	3315 - Valuers and Loss Assessors	3514 - Web Technicians	
	3332 - Conference and Event Planners	4211 - Bank Tellers and Related Clerks	
	3339 - Business Services Agents nec	4221 - Travel Consultants and Clerks	
	3341 - Office Supervisors	4222 - Contact Centre Information Clerks	
	3352 - Government Tax and Excise Officials	4224 - Hotel Receptionists	
	3354 - Government Licensing Officials	4225 - Inquiry Clerks	
	4212 - Bookmakers, Croupiers and Related Gaming Workers	4323 - Transport Clerks	
	4213 - Pawnbrokers and Money-lenders	4413 - Coding, Proofreading and Related Clerks	
	4214 - Debt Collectors and Related Workers	4414 - Scribes and Related Workers	
	4322 - Production Clerks		
	5221 - Shopkeepers		
	5242 - Sales Demonstrators		

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