



Policy Briefing



The impact of flexible work on SME Performance: An analysis of flexible working arrangements, innovation and productivity in Scotland

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Key findings

One out of three jobs currently advertised in Scotland offers flexible working (Timewise, 2023) and recent legislation — the Employment Relations (Flexible Working) Act 2023, effective from April 6, 2024 — grants employees the right to request flexible working from day one in a new job. This significant legislative change reflects a growing recognition of the need for flexible work arrangements (FWAs) across the UK, addresses the recruitment difficulties due to an increased level of economic inactivity post-pandemic, offers the possibility of a better work-life balance to workers while adapting to their needs, and potentially improves productivity and innovation as several studies have found around the world. In Scotland, the Government's Fair Work Action Plan further reinforces this commitment by promoting fair and inclusive workplaces tailored to the unique needs of Scottish workers.

However, the factors behind FWAs adoption and its impact on business performance for small and medium enterprises (SMEs) in the UK remain underexplored. Drawing on data from Scottish SMEs in the Longitudinal Small Business Survey (LSBS) between 2015 and 2022, this report provides a comprehensive evidence-based analysis of the determinants of FWAs adoption and its relationship with SME productivity and innovation. We do this by investigating both any FWAs as an aggregate and disaggregating FWAs into eight distinct types (flexitime, annualised hours contract, term-time working, job sharing, nine-day fortnight, four-a-half-day week, zero hours contracts and oncall working) in addition to a nineth type comprising any other flexible working hours arrangement. In modelling productivity and innovation, we control also for a set of other business characteristics like sector, age, location in rural areas, female ownership, exporting status, plans for the future and major obstacles to business success allowing a rich analysis of Scottish SMEs behaviour. Through this analysis, we aim to bridge the knowledge gap and inform policymakers and business leaders about the critical role of flexible work in enhancing SME performance.

It is found that, overall, three out of four Scottish SMEs with employees offer some form of flexible working arrangements. The type of contract more likely to be adopted is flexitime, or flexible working hours, offered on average in the period 2015-22 by more than two out of three FWAs firms, and just over half of all Scottish SMEs with employees.

Authors



Sara Maioli Newcastle University sara.maioli@newcastle.ac.uk



Pattanapong Tiwasing
University of Nottingham
Pattanapong Tiwasing@nottingham.ac.uk







The table below highlights the patterns of FWAs among Scottish SMEs from 2015 to 2022. For example, flexitime is consistently offered by 69% of SMEs offering flexible working hours, with a dip to 53% during the 2020 pandemic, recovering afterward. Job sharing declined from 25% in 2015 to 17% in 2022, averaging 20%, with a pandemic-related drop to 14%. Zero-hours contracts averaged 20%, increasing since 2018 but falling to 18% in 2020. Overall, although the pandemic led to a temporary decline in the variety of FWAs offered, almost all Scottish firms (99%) in our sample in 2020 adapted to the exceptional circumstances by adopting some form of flexible working arrangements, even if they offered fewer types.

| Type of contracts | Number of Scottish SMEs responding to flexible work questions by year | | | | | | | | Average SMEs for 2015-22 |
|---|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------------------------|
| | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | |
| Flexible working hours (Flexitime) | 428 (68%) | 373 (70%) | 384 (71%) | 416 (71%) | 435 (72%) | 266 (53%) | 369 (73%) | 398 (70%) | 384 (69%) |
| An annualised hours contract | 183 | 154 | 148 | 176 | 201 | 90 | 155 | 186 | 162 |
| | (29%) | (29%) | (28%) | (30%) | (33%) | (18%) | (31%) | (33%) | (29%) |
| Term-time working | 144 (23%) | 119 (22%) | 120 (22%) | 152 (26%) | 131 (22%) | 71 (14%) | 120 (24%) | 126 (22%) | 123 (22%) |
| Job sharing | 158 | 114 | 105 | 143 | 131 | 71 | 87 | 99 | 114 |
| | (25%) | (21%) | (20%) | (24%) | (22%) | (14%) | (17%) | (17%) | (20%) |
| A nine-day fortnight | 42 (7%) | 33 (6%) | 40 (7%) | 50 (9%) | 44 (7%) | 29 (6%) | 38 (7%) | 32 (6%) | 38 (7%) |
| A four and a half day week | 151 | 125 | 119 | 149 | 122 | 69 | 100 | 104 | 117 |
| | (24%) | (23%) | (22%) | (26%) | (20%) | (14%) | (20%) | (18%) | (21%) |
| Zero-hour contracts | 114 | 93 | 91 | 122 | 127 | 91 | 124 | 127 | 111 |
| | (18%) | (17%) | (17%) | (21%) | (21%) | (18%) | (24%) | (22%) | (20%) |
| On-call | 141 | 117 | 89 | 121 | 98 | 57 | 95 | 125 | 105 |
| working | (23%) | (22%) | (17%) | (21%) | (16%) | (11%) | (19%) | (22%) | (19%) |
| None of these | 190 | 243 | 201 | 242 | 244 | 142 | 168 | 178 | 201 |
| | (30%) | (45%) | (37%) | (41%) | (40%) | (28%) | (33%) | (31%) | (36%) |
| Any type of flexible working agreements | 625 | 536 | 538 | 584 | 606 | 505 | 507 | 571 | 559 |
| | (76%) | (68%) | (73%) | (70%) | (71%) | (99%) | (75%) | (76%) | (75%) |
| Total SMEs with employees | 820 | 781 | 740 | 838 | 854 | 509 | 677 | 751 | 746 |

Note: The percentages in the first nine rows refer to the total number of Scottish SMEs offering any type of FWAs, whereas the percentage in the tenth row is calculated out of the total number of Scottish SMEs with employees.

Key findings reveal that innovation plays a crucial role in the adoption of FWAs among Scottish SMEs. Firms characterised by innovative practices are more likely to adopt flexible arrangements, such as flexitime and alternative work schedules.

Additionally, the adoption patterns of FWAs vary across sectors. The primary and the construction sectors are less likely to offer any type of FWAs, while ITCs and the professional and scientific sector are more likely to offer flexitime, the hospitality and the healthcare and social sectors are more likely to offer zero-hours contracts, in the education

sector term-time work is more prevalent and in the administrative and support services sector there is a higher chance of finding on-call working arrangements. Some of these sectoral differences in the adoption of FWAs are related to the different prevalence of females working in them, as female-dominated roles are more prone to be offered flexible work contracts (Timewise, 2023). However, these sectoral differences can self-reinforce the job segregation by gender as they can be perceived as barriers to entering inflexible professions by those workers who need such flexibility. This distinction suggests that tailored sector-specific policies may be necessary to address the unique challenges and needs of different industries.







Location seems to matter for on-call working which is more likely to be offered by SMEs in rural areas. Also, business size matters in the adoption of FWAs: while medium-sized firms are inclined to adopt any type of FWAs, smaller firms are less likely to offer flexitime (the most common type of FWAs among SMEs in Scotland) and instead they rely more on zero-hours contracts. Understanding what prevents small firms from adopting more of the other types of FWAs would be a first step in addressing this disparity across business sizes. It also suggests that policy support initiatives should focus on the smaller firm segment of the business population with campaigns to inform about the benefits of introducing FWAs both for the employees (better work-life balance) and for their employers (improving staff recruitment and retention).

We also shed some light on the differences in adopting two types of contracts used by businesses to manage their variability of demand for labour: on-call working and zero-hours contracts. Zero-hours contracts are prevalent in the hospitality and healthcare sectors, while on-call working arrangements are more common in rural areas and administrative roles. SMEs with formal business plans and those planning to invest in the development of their workforce are more likely to adopt on-call working, whereas SMEs planning to invest more in capital are more likely to rely on zero-hours contracts. This different strategic approach to workforce management requires more investigation, especially in light of the disruptive impact of artificial intelligence (AI) and robotisation in production, which may further push some firms to reduce their reliance on labour with secure contracts and resort to more FWAs without guarantee of work.

Although on-call working and zero-hours contracts may often be viewed as less preferable, they remain critical in some sectors such as healthcare and hospitality, where flexibility is necessary to meet fluctuating demands. It is important for policymakers to recognise the nuanced role of these contracts, which may be chosen for their flexibility by workers (like students working in the hospitality sector to help pay for their studies while retaining the possibility to refuse to work when called). Hence, we recommend a balancing act between the need for flexibility on the part of the employers and workers and the need to avoid exploitative contracts where workers work regular hours but are not given secure contracts. In such cases, policymakers should consider designing regulation to incentivise the adoption of alternative FWAs, for example an annualised hours contract which would give workers a more predictable income.

Considering SME productivity, the results indicate that offering flexible working arrangements does not influence labour productivity in a statistically significant way, except for the nine-day fortnight working, which is positively associated with improved productivity and statistically significant, but it is also the least used flexible work contract among those adopted by SMEs.

The lack of any association between labour productivity and FWAs more generally could be due to data issues and is therefore unsurprising. This is because to calculate labour productivity we use the number of employees per firm, but despite the most frequently used form of flexible employment in the UK being part-time, accounting for 24% of all employees (75% of whom are women), the LSBS data does not allow to consider the number of part-timers due to the lack of granularity of the survey information on the quantity of labour employed by SMEs. We are also limited to only use a measure of whether a business adopts any FWAs because the LSBS does not record how many employees are covered by such agreements, hence it is impossible to know the extent of their usage and draw quantitatively firm conclusions on their impact. Improving data collection is therefore a priority to provide deeper analyses in an age at the cusp of dramatic changes in employment and production practices due to flexible work, AI and other disruptive technologies. We support the introduction of a linked employers-employees in the UK as it exists in many other developed countries.

As per innovation, we consider both actual innovation in the previous three years and the intention to innovate in the following three years. Our analysis finds that SMEs offering flexible working hours arrangements, particularly flexitime, are more likely to report innovation. This supports the argument that flexibility fosters a creative environment, enhancing product and process development as found in the literature. The results also indicate that different types of FWAs contribute to the intention to innovate, particularly







flexitime and term-time working contracts. These findings highlight how flexible work models can be a win-win arrangement for workers and the firm, stimulating innovation plans and activities that help the firm compete and stay in the business.

Younger firms exhibit a stronger inclination to innovate, while older firms less likely to innovation (over 20 years), which may exhibit resistance to change due to established business practices. Additionally, SMEs that prioritise workforce skill enhancement, invest in capital, and adopt new working practices are more committed to innovation. Firms involved in exporting and those seeking external advice or maintaining formal business plans are also more inclined to pursue the development of new products and services. Also, firms in more dynamic sectors, such as information and communication, are more likely to articulate plans for innovation compared to those in less dynamic sectors like primary, construction and healthcare sector.

Policy implications

Given the impact of FWAs on business performance and the increasing demand for WFA adoption, this report provides some key policy recommendations as follows:

- Promoting FWAs, especially flexitime, is crucial for enhancing innovation within SMEs by fostering a more creative and dynamic environment. This can be achieved through awareness campaigns and resources that highlight the benefits of FWAs, particularly targeted towards the smaller firms and towards the population to make them aware of this new right to flexible work from day one in a new job. This could support the Scottish Government's National Innovation Strategy (2023 to 2033), which aims to create a fairer, more equal and wealthier Scotland.
- The government should conduct critical assessments on the impact of different types of FWAs on productivity, as not all types of FWAs may contribute to higher productivity. Our results do not draw firm conclusions on the matter as they do not rely on high-quality data when it comes to measuring SMEs labour productivity.
- It is important to implement sector-specific policies by developing tailored regulations that address the unique challenges faced by different sectors. For instance, recognising the prevalence of zero-hours contracts in hospitality and healthcare can lead to the design of regulations that ensure fair working conditions while also promoting the benefits of stable employment.
- Implementing policies that ensure employees working under flexible arrangements have the same rights and protections as full-time employees, including access to benefits and job security guarantees.
- The ONS should improve the business statistics collection by introducing a linked employers-employees survey, which would allow combining a rich dataset on workers' characteristics and employment contracts with firm-level performance measures in order to accurately capture firm productivity and understand its relationship with the quantity and quality of its workforce, something which at the moment is missing.

Full paper link:

http://enterpriseresearch.ac.uk/publications/erc-research-papers/

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