Corporate Income Taxes and Labor: An Investigation of Empirical Evidence

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Corporate Income Taxes and Labor: Investigating Empirical Evidence

by Andrew Hanson and Ike Brannon

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In this report, Hanson and Brannon examine the empirical literature on the effect of corporate income taxes on labor, arguing that corporate tax reform would boost employment.

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I. Executive Summary

With the highest top marginal corporate tax rate among OECD nations and the third highest in the world at 35 percent, it is not surprising that policymakers have long evinced a desire to lower the U.S. federal corporate income tax rate. Doing so would have implications for a wide range of outcomes — from federal revenue to foreign direct investment — but the effects of such a change on the labor market are less understood.

Despite high corporate income tax rates, the United States collects relatively little revenue from the corporate income tax — slightly more than $300 billion in 2016, which amounts to about 10 percent of all federal receipts. High corporate income tax rates are cause for concern, as they deter multinationals from locating investment in the United States and reduce the amount of capital formation in the country, which affects employment and wages.

Economists establish the effect of the corporate income tax on employment and wages by using a wide range of methods, including international, national, and state-level comparisons. The key to any empirical work is attempting to disentangle the effects of the corporate income tax from other factors that may be correlated with both the corporate tax and labor outcomes. We find estimates that use a treatment and comparison set up within the framework of the vast array of state-level corporate tax changes to be the most effective way to establish a clear link between corporate taxes and labor outcomes. Other work that relies on only federal changes is complicated by the many national factors that also change with time.

In general, empirical work with the strongest results, that controls for factors of influence outside corporate income taxes, generally suggests an elasticity of employment regarding the corporate income tax rate of between -0.2 and -0.4, with a wage-income elasticity near -0.5. In the context of recent tax reform discussions that propose a rate reduction of 10 to 20 percentage points, that would imply long-run employment gains between 6 and 22 percent and wage increases between 15 and 28 percent.
In terms of applicability to potential federal changes to the corporate income tax, there are some caveats to consider. First, all empirical estimates are necessarily from a different time and place, compared with when and where a new policy will be implemented. Second, the United States has a different baseline than other countries that change corporate tax policy. Third, it is unclear how other countries, U.S. state government policy, and our own Federal Reserve might react to federal corporate tax policy changes. Finally, the state-level estimates we cite are all in the context of existing federal policy, and these differences pale in comparison with many international business climate differences.

Although there is some uncertainty about how well existing empirical estimates would translate to any federal corporate income tax reduction, we find the notion that corporate tax reform would boost employment and wages to be a strong result.

II. Introduction

The United States has the highest top marginal corporate income tax rate among the OECD members at 35 percent (38.9 percent when combined with subnational taxes).\(^1\) The U.S. corporate tax rate is the highest among the OECD group and the third highest rate in the world, surpassed only by Puerto Rico and the United Arab Emirates.\(^2\) Meanwhile, corporate income tax rates have been declining around the world for the last two decades; the average corporate income tax rate in the OECD has fallen from 30 percent in 2003 to 22.5 percent in 2016.\(^3\)

Despite high corporate income tax rates, the United States collects relatively little revenue from the corporate income tax — slightly more than $300 billion in 2016, which amounts to about 10 percent of all federal receipts.\(^4\) High corporate income tax rates are cause for concern; high rates deter multinationals from locating investment in the United States and, more generally, reduce the amount of capital formation in the country. Lowering corporate tax rates is cited as a top policy priority by multinational corporations over changing other aspects of the tax code.\(^5\)

More generally, the contrast between the high rates and low income illustrates a basic problem with taxing corporation income: It is an incredibly distorting tax. Companies go to great lengths to reduce or eliminate tax liability, and despite the best intentions of Congress or the White House, it can be difficult or impossible — from both a political and a practical perspective — to reduce or eliminate such behavior.

However, the tax treatment of corporations may also have implications that extend beyond the boardroom to affect the U.S. labor force. There is a growing empirical literature on the effect of corporate income taxes on employment and income. Empirical estimates, rather than theoretical models that abstract from many of the realities of the U.S. and world economy, offer the best hope of understanding how changes to the current federal corporation income tax may affect workers. Empirical estimates in the existing literature come with a unique set of challenges — including methodological issues, data applicability, and the geographic area analyzed — that do not make them perfectly applicable to recent tax reform discussions without some caveats.

In general, empirical work with the strongest results — that best control for other factors of influence — estimates an elasticity of employment regarding the corporate income tax rate of between -0.2 and -0.4, with a wage-income elasticity near -0.5. In terms of prediction, these elasticities imply that a 10 percent decrease in the corporate tax rate would lead to a 2 percent to 4 percent increase in employment and a 5 percent gain in wages.

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\(^1\) OECD, “Corporate and Capital Income Taxes,” at Table II.1 (2017).


\(^3\) Id.

\(^4\) Office of Management and Budget Historical Tables, “Percentage Composition of Receipts by Source: 1934-2021,” at Table 2.2 (corporate taxes averaged 10.1 percent of federal receipts between 2000 and 2015).

III. Conceptual Framework

The economic effects of the corporate income tax are wide-ranging. Because the corporate income tax is essentially a tax on profits, it affects all decisions regarding how corporations earn a profit. While this report considers how it affects employment and wages, the corporate income tax also affects where companies locate, the amount of capital investment, where to locate that investment, and various other decisions.

A. Incidence of the Corporate Income Tax

There is a long literature that examines the incidence of corporate taxes, with implications for employment (and wages). “Incidence” refers to which entity bears the burden of the tax after considering the cumulative effects the tax may have on various prices and corporate behavior. The entity that writes the check does not necessarily pay the tax, economics has long taught us.

For example, when corporate taxes increase, we would say that workers effectively pay the incremental tax if we observed that wages and employment decline as a result. Alan J. Auerbach\(^6\) offers an extensive review of corporate tax incidence, focusing on how theoretical models explain the incidence of the corporate tax and how different variations of these models can imply something different about who ultimately pays for the corporate tax. Auerbach points out that if a corporate income tax causes the capital-labor ratio to decline, it would result in falling wages and workers bearing the burden of the tax.

Mihir A. Desai, C. Fritz Foley, and James R. Hines\(^7\) offer a lucid explanation of how corporate income taxes may in theory adversely affect workers in both a closed and open economy. In a closed economy model, which probably doesn’t represent the United States well, Desai, Foley, and Hines point out that taxes on corporate income raise the cost of production done by corporations. However, not all production is done through corporations — the high corporate tax rates have begotten a large number of partnerships, sole proprietorships, S corporations, and other pass-through entities — so the corporate tax may induce production to shift to the noncorporate sector. If the ratio of capital to labor is higher in the noncorporate sector, resources flowing into the noncorporate sector will raise the demand for capital in turn, which could conceivably raise the after-tax return on capital enough to induce substitution away from labor and toward capital. The result would be that workers bear the burden of the corporate income tax.\(^8\)

Desai aver that in an open economy, which may be a better representation of the United States, corporate taxes may be even more likely to be paid for by workers. Their intuition is that if capital is mobile across international borders, then the after-tax return to capital must be the same across the economies of the world in equilibrium (presuming that capital flows to the highest after-tax return destination). If this is true, corporate income taxes discourage investment in a country. Also, because the after-tax return to capital must equalize across countries, inputs that are immobile (or less mobile) will bear the burden of the corporate income tax. Labor, or other less mobile factors of production, would therefore pay for the corporate income tax via lower wages.

IV. Empirical Evidence

The intuition in Desai, Foley, and Hines, comes from a long line of theoretical work on the corporate income tax. Economists have traditionally used dynamic, general equilibrium, theoretical models of the U.S. economy to study how corporate taxes affect employment and wages. The problem with these models is that they may miss important aspects of the real economy that are relevant to the relationship between corporate taxes and outcomes for workers. More recently, the availability of data and advances in econometric techniques have allowed for an empirical investigation into how

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\(^{8}\) Desai, Foley, and Hines note that this effect is mitigated by the fact that labor costs are deductible under a corporate income tax, so the initial effect of a corporate income tax would be to substitute toward labor in the corporate sector.
corporate taxes affect economic activity. We examine that literature to gain an understanding of how the corporate income tax affects labor — not in theory, but in practice.

A. U.S. Evidence at the Federal Level

Karel Mertens and Morten O. Ravn\(^9\) provide the only recent direct evidence on the effects of the federal corporate income tax rate on employment. Following Christina Romer and David Romer,\(^10\) Mertens and Ravn rely on the “narrative” method of estimation, which attempts to sort out tax changes that were in effect a “surprise” to the economy. Their goal is to separate the effect of the tax change from other factors that occur simultaneously in the economy — most notably a response to deficit concerns.

Mertens and Ravn rely on a sample of quarterly data on the U.S. economy from 1950 to 2006 and directly examine corporate tax liability rather than a policy measure like corporate tax rates. They find that a 1 percentage point reduction in the average corporate income tax rate increases real GDP per capita immediately by 0.4 percent and by another 0.6 percent with a one-year lag. They also find that cutting the average corporate tax rate does not affect tax revenue and does not affect employment in the aggregate.

While the Mertens and Ravn work is novel in its approach and unique in examining U.S. federal corporate taxes only, it has several shortcomings that call into question their failure to discern any employment effects of a change in the corporate tax rate.

First, the analysis uses the average corporate tax rate as a measure of corporate income tax policy, calculated as tax liability divided by corporate profits. The problem with this approach is that anything that affects corporate profits or general tax liability that might also affect employment might bias the study’s results. For example, if the economy is moving into recession, corporate profits typically shrink. This would artificially inflate the Mertens and Ravn measure of average corporate tax rate at a time when firms are likely shedding employees — causing estimates of tax policy to be biased against finding an employment effect.

Second, it relies on a small set of corporate tax changes — 16 in total over 56 years of data. In fact, Alexander Ljungqvist and Michael Smolyansky\(^11\) point out that there have been only three rate changes to the top federal corporate tax rate since 1969 (as opposed to 271 state-level changes): a 2 percentage point decline in 1979, a 12-point reduction in 1986, and a 1 percentage point increase in 1993. It is not clear to us how representative the changes identified by Mertens and Ravn are, beyond the three explicit rate reductions in the current economic climate.

Finally, Mertens and Ravn rely on time-series variation and simply cannot rule out the possibility that other factors in the economy, changing at or around the same time as their narrative shocks, are driving their results. Mertens and Ravn are not able to construct a valid counterfactual benchmark for how the U.S. employment situation would have evolved in the absence of corporate income tax changes.

B. Evidence From U.S. States

The promise of using state-level changes in the corporation tax rate is that it provides a much larger and stronger data set that makes controlling for economic fluctuations and similar exogenous forces easier to accomplish.

J. William Harden and William H. Hoyt\(^12\) provide an important review of the older economic literature that generally examines how state taxes (including business incentives and the corporate tax) affect employment as well as an analysis of how corporate taxes affect employment. Using annual U.S. state-level data between 1977 and 1994, Harden and Hoyt control for fixed state and year differences in the data and by doing so identify the effect of corporate taxes on employment using

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state-level corporate tax changes. Harden and Hoyt take an all-encompassing view of the corporate tax, measuring the size of the corporate tax burden as corporate tax revenue divided by personal income in a state. Importantly, because corporations may take time in adjusting to corporate tax policy, Harden and Hoyt examine the effects on employment through a lagged relationship.

Harden and Hoyt find a negative and statistically significant relationship between the corporate tax burden in a state and employment growth. Holding total revenue constant, Harden and Hoyt estimate that shifting 10 percent of the tax burden in a state from the corporate tax to another revenue source would increase the employment growth rate by 2.83 percent. Notably, the gains Harden and Hoyt report are for individual income taxes replacing corporate taxes; employment gains would likely be larger if revenue were replaced with a more efficient tax, such as a VAT, a carbon tax, or some other tax on consumption.

Alison R. Felix extends the previous literature by examining the effect of U.S. state corporate taxes on worker wages using a more recent data set spanning the period between 1977 and 2005. Felix estimates the relationship between corporate taxes and wages using a simple regression framework. She controls for the many other factors besides taxes that might affect worker wages, including individual factors (such as age, education, and occupation) as well as other, state-level factors (including income taxes, sales taxes, and government services). She uses the top marginal corporate tax rate in a state to measure the corporate tax burden and estimate the relationship between corporate taxes and wages.

The Felix model indicates a negative and statistically significant relationship between the top marginal corporate tax rate and worker wages, with a magnitude that suggests that a 1 percentage point increase in the top corporate tax rate will reduce employment by between 0.14 and 0.36 percent. A 15 percent corporate rate reduction, then, translates to employment gains of between 2 percent and 5 percent — the equivalent of 2.8 million to 7 million new workers.

Felix also shows that while the effect of the top marginal corporate tax rate is negative throughout the sample period, the relationship between the corporate tax rate and employment is stronger in the later part of the sample rather than in the earlier part. In fact, between 1997 and 2001, a 1 percentage point increase in the top corporate tax rate reduces employment by nearly 0.7 percent, which is more than double the effect in the earlier years of the sample. The changing relationship between the corporate tax and wages could result from increased competition among U.S. states or by foreign nations for mobile capital, she hypothesizes.

Xiaobing Shuai and Christine Chmura further extend previous analyses of U.S. state corporate tax policy by using updated data on job creation and state corporate tax policy changes between 1990 and 2012. During the sample period used by Shuai and Chmura, 30 states made corporate tax rate changes, which offers a “laboratory” to discover how differences in the corporate tax rate affect job creation.

The Shuai and Chmura model controls for general time effects using a fixed-effects estimation strategy, which offers control over many other factors that could bias their study, but their preferred model does not incorporate state-level fixed effects. The Shuai and Chmura estimates indicate that state corporate tax rates are negatively and statistically significantly related to employment growth. They estimate that employment will grow 0.03 to 0.05 percentage points faster in a state with a 1 percentage point lower corporate tax rate, or that the elasticity of employment regarding the corporate tax rate is -0.2. That translates to employment growth of 0.6 percent to 1 percent faster per year for a reduction in the corporate tax rate to 15 percent, as proposed by the Trump administration.

Xavier Giroud and Joshua Rauh also exploit state corporate tax policy differences as they

relate to employment and business establishment location. They constructed a sample of all U.S. business establishments with at least 100 employees that were active in multiple states between 1977 and 2011. Their model controls for constant differences among states, time-varying characteristics that are common to all states, and many other economic factors that differ across both states and time.

They find that a 1 percentage point increase in a state corporate tax rate leads to the closing of 0.03 business establishments and that about half of the effect occurs because companies can shift locations to competing states. On the employment side, Giroud and Rauh find that a 10 percent increase in the corporate tax rate corresponds to a 4 percent decline in employment at corporations that are subject to the tax increase. As a check for spurious correlation, Giroud and Rauh find no correlation between employment at corporations and changes in the personal income tax rate, lending credibility to their estimates.

Finally, Ljungqvist and Smolyansky estimate the effect of U.S. state corporate tax changes using the experience of counties located on the border of states with differing tax policies. Their data span 1970-2010, and they examine 140 separate tax increases in 45 states (and the District of Columbia) and 131 tax cuts in 35 states for their analysis. The employment data they analyze are taken from the Bureau of Economic Analysis Regional Economic Accounts, which documents annual employment and income at the county level. Their analysis relies heavily on the natural experiment approach to state corporate tax changes but also controls for time-varying factors such as demographic characteristics of residents.

They find that increasing the corporate tax rate leads to significant reductions in employment (and income) for residents. They estimate that a 1 percentage point increase in the top marginal corporate income tax rate reduces employment by 0.3 percent to 0.5 percent, but they also find that cutting corporate taxes does not have a corresponding positive effect unless the government implements the reductions during a recession.

Ljungqvist and Smolyansky also find a large effect on incomes, with a 1 percentage point increase in the top marginal corporate income tax rate corresponding to an income loss of between 0.3 percent and 0.6 percent. Cutting corporate taxes does not have a corresponding positive effect on income unless (again) the cuts are made during a recession.

Importantly, Ljungqvist and Smolyansky use a measure of employment and income based on the residence of individuals and not the location of businesses. This likely means they underestimate the effect of corporate taxes on the outcomes of interest because workers themselves are mobile and may look for work in neighboring counties when corporate tax changes affect their wages.

As a partial solution to this problem, Shawn Rohlin, Stuart Rosenthal, and Amanda Ross use data that is based on business location and apply a similar border method to state-level corporate tax changes. They examine the effects of tax changes on the propensity for businesses to open in the face of corporate income tax changes and find extremely large and negative effects — a higher corporate tax substantially reduces the probability that a new business starts operation in an area, which necessarily reduces employment. The primary sample used by Rohlin, Rosenthal, and Ross examines border states with a reciprocal tax agreement so that labor mobility across borders is not an issue in their estimates.

The data show that a 1 percentage point increase in the top marginal corporate tax rate reduces the likelihood of a corporate business opening in the county by a whopping 34 percent. This effect is larger for manufacturing and service-based businesses and slightly smaller for retail-based businesses.

In short, the data from state-based research consistently reveals that higher corporate taxes reduce employment and compensation.

C. International Evidence

The U.S state corporate tax literature may offer the most potential for understanding the effects of changing federal corporate tax policy because all states operate within the laws and business climate of the United States. However, state corporate tax policy may be dwarfed by

federal policy, so using state data to infer the effect of changes at the federal level may very well cause economists to underestimate the size of expected federal changes.

Examining corporate tax policy from an international perspective is advantageous because it can give a clearer picture of the potential effects of corporate tax policy changes on a national basis. However, the apparent gain in estimating size effects comes at the cost of examining corporate taxes in what is often a completely different legal and business environment than that of the United States. What’s more, most other OECD countries — they’re typically the comparisons used, by dint of the availability of data as well as the fact that they comprise the universe of developed countries — are much more closely integrated with their immediate neighbors and trading partners than is the United States, making such comparisons complicated.

A few international studies are similar to analyses made across U.S. states, examining corporate tax policy across areas within a country where policy differs. We analyze a few such studies, all of which have been published relatively recently.

For instance, Lars Feld and Gebhard Kirchgässner examined the effect of corporate taxes on resident employment across Swiss cantons (a canton is a division of the country similar to states in the United States). They show that corporate income taxes deter companies from operating and reduce employment for residents after controlling for factors like wages, education, and demographic differences. Their data encompass the years 1985 to 1997, in a context of low federal corporate income taxes, and reveal a relatively small magnitude of response from employment — a 10 percent increase in corporate tax leads to an employment loss of about 1 percent.

Simeon Djankov and his coauthors study the effect of corporate taxes using a cross section of 85 countries in the year 2004, focusing on how one country’s policy would affect a standardized company. This approach is interesting because it examines corporate tax policy in many countries, but the use of only a cross section, as opposed to a panel of data, means that other differences across countries might influence the results. Djankov et al. do not examine employment directly but instead examine entrepreneurship, finding that corporate taxes have a large negative effect on entrepreneurial activity (as well as a large negative effect on foreign direct investment, which is directly relevant to job creation and wages). They estimate that a 10 percentage point increase in the corporate tax rate (applying to first-year businesses) reduces the number of companies by 1.9 per 100 people, or by 38 percent. They also find that a 10 percentage point increase in the average corporate tax rate reduces the rate of businesses entering a country by 1.4 percentage points, or 17.5 percent at the mean.

Using a smaller sample of countries over a 25-year panel, Kevin Hassett and Aparna Mathur are able to account for country-specific fixed effects, or anything else about a country that differs, besides the corporate tax, and is constant across time. The Hassett and Mathur model also controls for time-period effects and other factors that change across both time and countries besides corporate taxes. They find that corporate taxes (measured as either effective or marginal rates) have a substantial negative effect on worker wages — a 1 percent increase in the corporate tax rate leads to a 0.5 percent decline in wages.

Wiji Arulampalam, Michael Devereux, and Giorgia Maffini also use a panel of data, examining 55,000 individual companies operating in nine European countries (Belgium, Finland, France, Germany, Italy, the Netherlands, Spain, Sweden, and the United Kingdom) to examine the effect of corporate taxes on employee wages over the years 1996-2003. Using microdata on individual companies, the study controls for many factors that may not be accounted for in

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previous studies. Arulampalam, Devereux, and Maffini are also able to examine the effect of tax changes at the individual company level, which is advantageous because it accurately depicts exactly the amount of tax being paid, although it is harder to interpret from a policy perspective. Arulampalam, Devereux, and Maffini find that a one-dollar increase in taxes results in companies’ total wage bill falling by 49 cents. This effect could come via reduced wages, lower employment, or some combination of the two.

Besides the previously mentioned theoretical explanation in Desai, Foley, and Hines, their work offers an empirical investigation into the incidence of the corporate tax using data from American multinational companies operating between 1989 and 2004. They estimate that a large portion of corporate taxes are borne by workers. While their estimates depend on the period and empirical specification, they show that ultimately workers pay between 45 percent and 75 percent of the corporate tax burden, which suggests that wages and employment necessarily fall when corporate tax rates rise and vice versa.

Marco Da Rin, Marina Di Giacomo, and Alessandro Sembenelli show that corporate tax policy may interact with other aspects of a country’s economy and find that countries with better “institutional infrastructure” — that is, a respect for the rule of law, predictable changes in policy, and strong property rights protected by courts with deep knowledge of such issues — experience more benefits from lowering their corporate taxes. This has implications for U.S. corporate tax policy because U.S. institutional infrastructure outside the tax code is typically regarded favorably in the world economy.

Another important response to the corporate tax that has implications for employment and wages is how multinational companies choose where to locate their operations. Johannes Voget examines the location decisions of multinational companies from 1997 to 2007 to determine how important corporate taxes are to cross-border relocation. Voget finds that companies are quite responsive to the burden of home-country taxation when considering international relocation, and Voget estimates that for an increase in repatriation taxes of 10 percentage points in the home country, the share of multinational companies relocating abroad increases by 2.2 percentage points. Put another way, this change would increase the number of relocations by a third.

James R. Hines Jr. examines the sensitivity of foreign direct investment (FDI) in U.S. states to corporate tax policy. Although this is not a direct measurement of an employment effect, the International Trade Administration attributes 12 million U.S. jobs to FDI, so the link between FDI and jobs is important. Hines shows that a state corporate tax rate difference of just 1 percent is associated with a difference of between 9 and 11 percent in the share of manufacturing capital owned by differently taxed investors.

**V. Conclusion and Lessons for Reform**

Although the context and technique of the studies examining the effects of the corporate income tax we cite in this report are different — sometimes markedly so — the balance of the literature shows a substantial negative effect of corporate taxes on labor, through employment, wages, and the business location. Studies with the stronger results that control for factors of influence outside corporate income taxes generally have an elasticity of employment regarding the corporate income tax rate of between -0.2 and -0.4, with a wage-income elasticity near -0.5. That is, for a 10 percent decrease in the corporate tax rate, the existing empirical literature shows an increase in employment of between 2 and 4 percent, along with a 5 percent gain in wages.


24 This estimate includes direct employment at foreign-owned companies, indirect and induced employment from foreign-owned companies, and indirect and induced employment from productivity spillovers resulting from foreign-owned companies. The figure comes from the International Trade Administration publication: Julian Richards and Elizabeth Saefer, “Jobs Attributable to Foreign Direct Investment in the United States,” Industry and Analysis Economics Brief, International Trade Administration (2016).
In terms of applicability to potential federal changes to the corporate income tax, there are some caveats to consider.

First, all empirical estimates are necessarily derived from a different time and place than when and where a new policy will be implemented. This calls into question how similar the current economic climate today is to the climate (place, time, existing policies, and industrial mix) when the studies we cite were completed. In terms of studies that examine corporate taxes internationally over time, this validity problem may be especially severe — the United States has a particular set of laws, regulations, and workforce characteristics that are very different from other countries, all of which might make the effect of corporate income taxes on employment and wages more or less severe here than elsewhere.

Second, the United States has a different baseline than other countries that change their corporate tax policy — having the highest top statutory corporate tax rate among developed nations and being the largest economy in the world may make the effects of corporate income taxes different here.

Third, it is unclear how other countries, U.S. state governments, and our own Federal Reserve may react to federal corporate tax policy changes; any policy changes they enact in response may serve to mute or exacerbate expected effects.

Finally, the state-level estimates we cite are all in the context of existing federal policy, and while there are considerable differences in state business climates, these differences pale in comparison with many international business climate differences. It is likely that the corporate income tax interacts with the general business climate, which might mean that changing the federal corporate income tax would do more to attract new companies from outside the United States (or slow the flow of corporate inversions) than any state change could, resulting in a larger effect on employment than state-level estimates suggest.

Although there is some uncertainty about how well existing empirical estimates would translate to any reduction in federal corporate income tax, nearly all empirical studies suggest there would be some gains for labor from the change. This is highlighted by estimates of corporate tax incidence that suggest it is labor that pays for most of the corporate income tax.