Generating Jobs through State Employer Tax Credits: Is There a Better Way?

Jeff Thompson & Heidi Garrett-Peltier

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ABSTRACT
The Governors of Massachusetts, Connecticut, Rhode Island and several other states have recently proposed employer tax credits as measures to fight high unemployment in their states. Such policies have recently been passed at the federal level. The authors find that such policies, in fact, do little to increase aggregate demand, and instead only modestly reduce the after-tax cost of labor in an economy with high unemployment, falling wages, and weak demand. They suggest a more effective approach to creating jobs in the states: increasing spending in labor-intensive sectors and programs that are matched by federal funds, such as Medicaid. These expenditures would be particularly effective if they were financed through temporary high-income tax increases.

EXECUTIVE SUMMARY
The Governors of Massachusetts, Connecticut, Rhode Island and several other states have recently proposed employer tax credits as measures to fight high unemployment in their states. A similar policy has recently been adopted at the federal level. These policies are not likely to have a substantial positive impact on employment generation, either at the federal or state level. The obstacles to success for such measures at the state level are particularly high. This is because balanced budget requirements and caps on the size of the credits effectively negate the potential of state-level employer tax credits to create any jobs.

For effectively fighting the recession and mass unemployment, there is no substitute for effective counter-cyclical policies operating at the federal level. At the same time, states can generate some jobs by increasing spending in labor-intensive sectors and on programs that bring in federal matching funds, particularly if they are willing to use temporary taxes on affluent households to finance the spending.

The three proposals considered in this discussion vary in the details of the proposal, but little in the potential impacts.

- Massachusetts: $2,500 refundable tax credit for firms with fewer than 50 employees that hire full-time workers and maintain the position for at least one year between April 2010 and April 2012. Credit is capped at $50 million, and is refundable and based on withholding tax.
- Connecticut: $2,500 for each full-time employee hired at firms with fewer than 25 employees. Non-refundable credit against state corporate income tax liabilities, thus applies only to profitable firms.
Applies to hires that occur between January 2010 and December 2012, and available for two years beyond the year of the hire.

- Rhode Island: $2,000 non-refundable credit against state corporate income tax liabilities for each full-time employee hired at firms with between 5 and 100 employees. Applies to hires that occur between July 2010 and December 2011, for workers that were unemployed, receiving public assistance, or finishing a post-high school degree in previous 24 months. Hires must also be paid at least 250 percent of the state minimum wage and remain with the firm for 18 months.

The state-level programs are similar to the new federal policy, the “Small Business Jobs and Wages Tax Cut,” which will refund $5,000 plus the employer’s share of Social Security taxes (6.2 percent of payroll under $106,000) for new hires at expanding firms in 2010.

The basic economic rationale behind these proposals is that if workers are less costly, employers will have greater incentive to employ them, and this could cause firms to do more hiring. But findings from separate studies by the Economic Policy Institute and the Congressional Budget Office both lead to the conclusion that the federal policy will have modest employment impact – somewhere between 8 and 18 jobs per million dollars of credit. Historical evidence from the New Jobs Tax Credit (NJTC) program of 1977-78 indicates that the total job creation from a federal program could, in reality, be as low as 4 per million dollars in credit.¹

Job creation from state policies can be expected to be even significantly weaker than these federal numbers. Because the state proposals are small, targeted to small firms, and capped at relatively low levels they can be expected to generate little, if any, gross job gains. The credits are not generous enough to motivate many firms that weren’t already planning on hiring to do so, and will possibly be entirely consumed by the existing volume of hiring and expansion at small firms. Since the state credits have to be financed under a balanced budget, they cannot be expected to cause net increases in employment. The job losses resulting from decreased state spending will almost certainly outstrip the number of jobs created by the credits.

These factors make it almost certain that the employment impact of the proposed tax credits will be well below the low end of the CBO estimate of 8-18 jobs per million dollars of credit. If spending on other parts of state budgets is reduced to finance these tax credits, the employment impacts will likely be negative. Certainly the job figures will come nowhere near the expectations expressed by the Governors: 400 jobs per million dollars of credit in Massachusetts and 95 jobs per million dollars in Rhode Island.

As a job-creation engine, the tax credit compares unfavorably with a range of other options on which these states might alternatively spend these same funds. For example, each million dollars of spending on early childhood education would yield 30 jobs in Massachusetts and 33 in Connecticut and Rhode Island. Spending on state infrastructure projects would generate 12 jobs per million dollars in each of the states. Especially if it is financed through progressive tax on high-income households, spending on these programs can generate real net increases in employment. And spending in other areas, particularly

¹ See note 13. Applying Tannenwald’s finding for the own-price elasticity of the demand for labor in response to the New Jobs Credit of 1977-78 to Bartik’s model yields this job creation figure.
healthcare, can create relatively large numbers of jobs, since state spending on Medicaid is matched by the federal government.

INTRODUCTION

The Governors of Massachusetts, Connecticut, and several other states have recently proposed employer tax credits as measures to fight high unemployment in their states. A similar policy has recently been adopted at the federal level.

These policies are not likely to have a substantial positive impact on employment generation, either at the federal or state level. The obstacles to success for such measures at the state level are particularly high. This is because balanced budget requirements and caps on the size of the credits effectively negate the potential of state-level employer tax credits to create any jobs, even if the credits are otherwise well-designed. For effectively fighting the recession and mass unemployment, the fact is that there is no substitute for effective countercyclical policies operating at the federal level. At the same time, states can generate a small number of additional jobs by increasing spending in labor intensive sectors and on programs that bring in federal matching funds, particularly if they are willing to use temporary taxes on affluent households to finance the spending.

THE TAX CREDIT PROPOSALS

The Great Recession of 2008-09 has had severe repercussions on the livelihoods of tens of millions of people throughout the United States. More than 8 million jobs have been lost since the nation fell into recession in December 2007. Official unemployment stands today at 9.7 percent (March 2010), and unemployment is expected to average 8.0 percent even in 2012, according the latest forecast by the Congressional Budget Office. While the Obama administration’s $787 billion American Recovery and Reinvestment Act stimulus package has certainly helped, creating 2 million jobs since it was enacted in early 2009, it was too small to address the full extent of the economic downturn. Further steps are needed if we want to avoid high unemployment for years to come.1

a. Federal policy

One of the notable recent policy ideas for generating job growth is the employer tax credit, proposed by Tim Bartik, John Bishop and the Economic Policy Institute (EPI). In October 2009 Bartik and Bishop proposed a two-year $190 billion Job Creation Tax Credit (JCTC), which would refund 15% of any payroll taxes incurred by added wage costs, whether due to new hires, increased hours, or increased wages.2 According to Bartik and Bishop’s analysis, the JCTC would create 27 new jobs for every $1 million in tax credit between 2010 and 2011, with the cost per job falling further if increased income tax payments and decreased public benefit receipt for newly employed workers are also taken into consideration.

In his February State of the Union Address, President Obama laid out a very similar proposal called the “Small Business Jobs and Wages Tax Cut” (JWTC). The JWTC would refund $5,000 plus the employer’s share of Social Security taxes (6.2 percent of payroll under $106,000) for new hires at expanding firms in 2010.3 Because the President’s proposal was quite similar to the JCTC, economists at EPI concluded it would have roughly the same impact on jobs. The version of the credit that emerged from the House and Senate, and was ultimately signed into law by President Obama, however, provides only a credit of 6.2 percent of payroll costs for hiring long-term unemployed workers in 2010, whether the firms actually ex-
Because of these key differences, Bartik estimates this version of tax credit would create only 13 jobs per $1 million in tax credits.5

b. State policies

As the federal proposals worked their way through the political process, several states introduced versions of these jobs tax credits. Governor Patrick of Massachusetts proposed a $2,500 refundable tax credit for firms with fewer than 50 employees that hire full-time workers and keep them employed for at least one year between April 2010 and April 2012.6 The value of the credit is capped at $50 million, and since it is refundable and based on withholding tax, the credit will still be available to firms that generate no profit.7

Governor Rell of Connecticut made a somewhat similar proposal, an expansion of the “Jobs Creation Tax Credit Program (JCTCP)” in Connecticut.8 The JCTCP expansion provides $2,500 for each full-time employee hired at firms with fewer than 25 employees. Because it is a non-refundable credit against state corporate income tax liabilities, it applies only to profitable firms. It applies to hires that occur between January 2010 and December 2012, and is available to the firm for two years beyond the year of the hire.9 So, in practice the $10 million annual cap on the credit could cost the state up to $50 million.

The proposal Governor Carcieri put forward for Rhode Island is broadly similar to those in the other states. The “Small Business Jobs Act” would give a non-refundable credit of $2,000 to small firms hiring unemployed Rhode Islanders into full-time jobs with decent wages between July 2010 and December 2011.10 Eligible firms must have at least five and no more than 100 employees in the state.11 Eligible employees need to be working at least 30 hours per week and have been receiving Unemployment Insurance, a recent participant in the states’ welfare program, or graduated from a college or technical school at some time in the previous 24 months. The credit is effectively targeted to expanding firms, not simply hiring firms, by requiring that the size of the firm not decline and that the hired worker remain with the firm for 18 months. There are also several important distinctions between the proposals in Rhode Island and those in Massachusetts and Connecticut. Eligible workers in Rhode Island are required to make an hourly wage of at least $18.50 – 250 percent of the state’s minimum wage – and also be eligible for an employer-provided health insurance plan. And, although the state has estimated the credit will cost $10 million, there is no cap and the total size of the credit.

THE ECONOMIC RATIONALE AND LIMITS OF THE PROPOSALS

The basic economic rationale behind these proposals is that they would reduce the cost to employers of hiring workers. If workers are less costly, employers will have greater incentive to employ them, and this could cause firms to do more hiring. Governor Patrick, for example, claims that “this will encourage the hiring of up to 20,000 people,” expecting that 400 jobs will be created for each million dollars of tax credit. This estimate, however, is simply built by dividing the cap on the credit ($50 million) by the size of the credit ($2,500) and does not reflect any serious attempt to discern the credit’s impact. To his credit, Governor Carcieri acknowledges that most of the jobs receiving the credit in Rhode Island will go to firms that would have been growing even without the new policy. His administration has budgeted $10 million for the “Small Business Jobs Act” and expects it will create 950 jobs in Rhode Island, 95 jobs for each million dollars of tax credit.12

In practice there is good reason to think the state-level credits will generate very little, if any, hiring of new employees. Even the federal credits, which have advantages over the state-level credits, are unlikely to
generate as many jobs as are being projected. The state-level policies, with small credits, low caps and the accompanying balanced budget requirements, will certainly perform far worse.

POTENTIAL IMPACTS OF A FEDERAL CREDIT

a. The elasticity of labor demand

The amount of new employment generated by any federal tax credit is largely a function of the size of the credit and how responsive employers are to temporary reductions in total compensation. In the EPI proposal, Bartik and Bishop use a measure of firms’ responsiveness—the ‘own-price elasticity of demand for labor’—of 0.3; if compensation declines by 10 percent, firms will increase their demand for labor by 3 percent. This is the “best estimate” of the range of estimates of the long-run elasticity of the demand for labor based on Daniel Hamermesh’s seminal work on labor demand.13 In the short-run—more relevant in this situation, given the temporary nature of the credit—the elasticity will be lower, however. And in a period of particularly weak demand, employers will likely be even less responsive. Using an elasticity from the lower end of Hamermesh’s range—0.15—the number of jobs per million dollars of credit falls from 27 to 15.

Estimating the JCTC job creation based on the lower (0.15) elasticity—15 jobs per million dollars of credit—generates results much closer to those in the recent Congressional Budget Office analysis of similar employer tax credit proposals.14 The CBO concludes that under any payroll tax cut proposal “most of the money forgone by the government would go to reduce employers’ taxes for existing workers, so—per dollar of forgone revenues—the added incentive to increase employment and hours worked would be small.” If the payroll tax cut were restricted to firms that were expanding payrolls, the CBO estimates that the policy would create between 8 and 18 full-time jobs per million dollars of credit.

b. Analogous and historical policy comparisons

It is unclear in the current economic environment how responsive firms would actually be to these sorts of tax credits. With demand for goods and services seriously depressed, unemployment high and wages falling, it is not obvious that a tax credit for hiring would actually cause firms to expand their employment and operations. Much of the interest in this type of tax credit, however, is based on the perceived success of the 1977-78 New Jobs Tax Credit (NJTC). Studies by Bishop (1981) and Perloff and Wachter (1979), as well as surveys of small businesses (McEvitt, 1978) do provide some evidence that firms added jobs as a result of the credit.15

Yet there is also evidence suggesting caution in interpreting these findings. The new jobs identified by these studies were based on the differences in employment gains between firms that knew about the NJTC and those that did not. Firms that knew about the credit seemed to grow 3 percent faster than those that did not (Perloff and Wachter, 1979). But these studies are unable to rule out the possibility that firms knew about the credit because they were already planning to hire new workers.

Based on an extensive employer survey combined with the payroll records of Wisconsin firms, Tannenwald (1982) found that most firms with knowledge of the NJTC did not increase hiring, and that the implied own-price elasticity of the demand for labor in response to the policy was just 0.04.16 Firms did not hire because demand for their product simply did not warrant increased production. Tannenwald also found that there were also important organizational and informational gaps. At many firms the people doing the hiring had little interaction with the people filing taxes, and the timeframe for hiring is often very
different than the timeframe for filing taxes. Using the elasticity from Tannenwald’s research suggests as little as 4 jobs per million dollars of tax credit.

Such weak employment impacts are consistent with observation of other policy interventions that affect labor costs, in particular raising the minimum wage by modest amounts. The “consensus” view of labor economists is that the demand for teenage labor falls one percent in response to an increase in the minimum of 10 percent (an elasticity of 0.1), and many studies find the relationship is indistinguishable from zero.\textsuperscript{17}

c. Federal policies and deficit financing

Federal policies that would reduce the payroll taxes of firms have the potential to increase net employment during a recession largely because the federal government can engage in deficit spending. In the absence of this ability, gross job gains from the credit would be weighed against gross job losses from the offsetting budget cuts or tax increases, resulting in a net change in employment much smaller than reported by EPI or the CBO, likely very close to zero. Whether that net increase is positive or negative would depend on the responsiveness of the sectors benefiting from the tax credit and the labor intensity of the sectors experiencing budget cuts.

LIMITATIONS OF STATE-LEVEL CREDITS

State-level impacts from similar policies are likely to be smaller than even the most limited expectations at the national level. In their federal proposal, Bartik and Bishop note that state-level versions of these tax credits will have little impact on jobs because they are likely to be poorly designed, and any employment impacts will be undermined by state budget rules. For a new jobs tax credit to be effective, Bishop warns that 1) it needs to be a significant share of labor costs; 2) it should not favor low-wage, high-turnover firms, and; 3) there should not be a firm-level cap on the amount of credit that can be received.\textsuperscript{18} By these criteria “poor design” is a factor in all three state’s proposals, which are restricted to small (high-turnover) firms, and – in two cases – have low caps on total amount of the credit. And all states face balanced budget requirements which will force budget cuts or other tax increases to offset the revenue lost through the credit.

WASTED EFFORT – REWARDING ALREADY PLANNED EXPANSION

Even supporters of the federal credits acknowledge that many firms that were already planning on expanding would benefit from the credit. According to EPI’s own analysis, under the best-case scenario, for every job created because of the EPI-proposed tax credit in 2010 and 2011, more than six other jobs that were already going to be created would also benefit from the credit. This is arguably acceptable at the federal level because these benefiting firms may in turn increase their demand for additional workers or other materials and equipment.\textsuperscript{19} Moreover since the federal credit does not have a cap, the fact that these already-expanding firms take the credit does not exclude other firms from expanding because of the credit. This is not the case with the state-level credits. By capping the value of the credit, it is possible that the full amount budgeted for the credit in Massachusetts and Connecticut could be consumed by firms that were already going to expand.

The credits would be available to any small firm adding net new full-time jobs in Massachusetts between April 2010 and April 2012, in Rhode Island between July 2010 and December 2011, and any small firm
hiring workers in Connecticut between January 2010 and December 2012. There is no way for the states to distinguish between jobs added because of the credit and those that would have been added anyway. This is a major problem for the state-level credits, since even in a deep recession many firms expand employment and even more engage in replacement hiring.

The existing volume of hiring and expansion among small firms suggests that much, if not all, of the credit could be absorbed by hiring that was already going to happen. Because the state credits are capped, only 20,000 Massachusetts jobs and 4,000 Connecticut jobs can claim the credit in a single year. The available data do not allow us to precisely compare recent hiring to the categories laid out in the Connecticut and Massachusetts proposals, particularly the requirements for employment tenure and that the jobs must be full-time. However, since eighty percent of all jobs are full-time and the job tenure of the typical worker is four years, it remains quite possible, given the following data, to conclude that the current level of hiring among small firms in Massachusetts and Connecticut will be sufficient to fully absorb the proposed employer tax credits.

In the second quarter of 2009, Massachusetts added approximately 47,000 jobs at expanding firms with fewer than 50 employees and 19,000 jobs at newly created firms with fewer than 50 employees. In Connecticut 16,000 jobs were added at expanding firms with fewer than 20 employees and 6,900 jobs were added at newly created firms with fewer than 20 employees.

In Rhode Island, where there is no cap proposed on the total size of the credit, the implications of existing levels of job growth at small firms are different. Instead of potentially “using up” allocated funding levels, existing job growth will possibly push the costs of the credit higher than anticipated by the state and almost certainly shift the composition of jobs rewarded under the credit. Less of the total amount of the credit will be awarded to jobs “created” by the credit than the state anticipates. In the second quarter of 2009, expanding firms with between 5 and 100 employees in Rhode Island added 7,700 jobs, and 1,200 jobs were added at newly opened firms of a similar size.

Because of employment turnover and business closings, we cannot simply multiply quarterly gross job gains figures by four to obtain annual estimates. Workers who are hired might later quit or be fired, and firms that expand in one quarter might contract in the next. In general, however, for expanding firms of all sizes in these three New England states, the level of gross job gains in a given quarter is usually two-thirds of the level of gross job gains across an entire year. For newly opened firms, the quarterly gross job gains are roughly one-third of job gains over an entire year.

The volume of hiring – relevant here because the Connecticut credit is based on the number of full-time hires, not firm expansion – is even greater. Between December 2007 and December 2009 (the most recent data) an average of 52,000 workers were hired each month in Connecticut. Over the same period monthly hiring averaged 98,000 workers in Massachusetts and 15,000 workers in Rhode Island (Figure 1). In spite of all of this hiring, total employment declined steeply over this period because this is less hiring than takes place in an expansion, and because layoffs rose.

Despite the approximations required by the data, a fairly conservative set of assumptions suggest that the existing volume of hiring and expansions at small firms is sufficiently large to absorb the entire of the credits being proposed in Massachusetts and Connecticut. If 1) small firm expansion in 2010 and 2010 remained as low as levels in 2009, 2) quarterly gross jobs gains were 80 percent of annual gains at expanding firms and 65 percent at opening firms, and 3) only half of workers at small firms work 35 hours or more per week, there would already be 44,000 jobs eligible for the credit in Massachus-
setts each year and 15,000 in Connecticut, even without the credit. This is more than enough to absorb all of the budgeted credits in both states. Since the credits are available first-come-first-serve and even more gross job creation is expected in 2010 and 2011, there may be no credit available for firms who might actually expand because of the credits’ existence. Knowing this might serve as a major obstacle for firms contemplating creating jobs based on the expected benefit of the credit.

Under these same assumptions, there are already 5,700 eligible jobs in Rhode Island. Without a cap, the size of the credit will not be “used up” in a similar fashion, but the cost of the credit may exceed the costs anticipated by the state. Under the forecasted budget figure of $10 million, and estimates of total net job growth for the state of 4,050 between July 2010 and December 2012, state budget analysts anticipate $1.9 million in tax credits will remain for jobs that are not already anticipated by firms. With a $2,000 per-hire credit, the state is expecting to increase employment by 950 jobs. But the 4,050 figure used by the state is a poor proxy for the existing growth of jobs eligible for the credit. The estimate of 5,700 described here, while still imperfect, is arguably a better proxy for gross expansions of full-time employment at small firms. This pushes the cost of the credit up to $11.4 million just to accommodate existing job growth. The $10 million budget estimate, though, has no impact on the actual capacity of the small business tax act to create jobs. Without a cap, the increase in employment under the credit will be driven only by the size of the credit, the responsiveness of firms in Rhode Island both to the generosity of the credit and the restrictions attached to the credit.

FURTHER LIMITATIONS OF SMALL CREDITS AND THE FOCUS ON SMALL FIRMS

Facing depressed demand and considerable economic uncertainty, employers are likely to require relatively generous subsidies before expanding payrolls. To the extent that the NJTC of the late 1970s was successful, it was because the $2,100 credit was equal to 22 percent of a typical full-time worker’s annual earnings. An equivalent credit in 2009 would be worth nearly $12,000. Today, in Bishop’s (2008) estimation, a tax credit needs to be “larger than $3,000 to grab the attention of employers,” and ideally it would be more than twice that amount. At $2,000 and $2,500, the proposed credits in the New England states are most likely to be insufficient to grab the attention of employers.

The CBO also notes that restricting the credit to benefit only small firms will further reduce the impact on jobs, because employment at small firms is especially volatile. Given their higher-than-average volume of hiring and turnover, directing the credit at small firms would exacerbate the tendency of the program to reward job creation that would have occurred anyway. The CBO found that limiting the credit to firms with fewer than 100 employees would result in five to ten percent less job growth per dollar spent on a federal credit than opening it to all firms. If states restrict their credits to even smaller firms (50 employees in Massachusetts and 25 in Connecticut), the job impacts will be even smaller.

The separate restrictions in Rhode Island’s credit pose additional problems. By requiring that individual workers be retained for 18 months, and that workers make 250 percent or more of the states’ minimum wage, the credit is essentially inapplicable to substantial portions of firms and workers in the state. Nationwide the groups losing most jobs in the Great recession have been young workers with low levels of education, and most of those workers earn less than $18.50 when they are employed. And the requirement that the individual worker remain with the firm for 18 months will diminish the perceived value of the credit for firms. Firms cannot count on actually receiving the credit even if they are expanding, because the credit will have to be paid back in the event an eligible hire leaves before 18 months.
REMAINING POTENTIAL FOR GAMING THE CREDITS

Since the proposed credits in all three states would be available to firms of any organizational form and do not reward transferring employees between sites or related businesses of a corporation, they circumvent some of the more obvious ways a firm might “game” the system. Despite these safeguards, the Massachusetts proposal does leave open one unintended consequence. Because the baseline for measuring employment growth is March 31st 2010, it would be possible for firms to lay off workers in advance of the March 31st cutoff and re-hire them in April. Given the costs of making this adjustment in terms of worker morale and lost output and the relatively small size of the credit, it is unlikely that firms would actually try to game the system in this way. But this only underscores the fact that the small size of the credit makes it unlikely that employers are likely to actually create jobs because of the credit.

The proposal in Connecticut contains a similar loophole, giving firms the incentive for very short-term hiring. To be eligible for the credit, hires must be employed during, but cannot have been hired in, the last month of the year. So, firms that hire a worker in November 2010 and fire them in January 2011 will be eligible for the full $2,500 tax credit.

THE REALITY OF BALANCED BUDGETS

Massachusetts and Connecticut, along with all states except for Vermont, have balanced budget requirements. Therefore any expenditure on these tax credits will need to be offset by budget cuts or other tax increases, effectively undermining any stimulus from the credit. In fact, the loss in employment (both public and private sector) from budget cuts used to finance the employer tax credits would almost certainly be greater than the number of jobs added due to the tax credits. Each million dollars of across-the-board reductions in state government spending would eliminate more than 18 jobs in each state; $50 million in reduced spending would eliminate 938 jobs in Massachusetts, and $10 million in reduced spending would eliminate 185 in Connecticut (see Table 1). These job losses would impact state employees laid off due to the cuts, private sector employees at firms losing contracts with the state, and other private sector workers at companies where business drops off due to reduced customer spending. These combined job losses offset the job gains estimated by most of the analyses of even the federal employer tax credits.

THE TIMING OF THE CREDITS

Because of the timing of the proposed credits, the current state budgets will not be affected by their adoption. In Massachusetts no credits will be paid until April 2012, even for hires that are made as early as April 2010. In Connecticut, the non-refundable credits can be used in the following tax year. The intent of this design is to give firms an incentive to hire now, when the economy is bad, while allowing state governments to defer the costs for another budget cycle. One of the problems with this approach is that state budgets are expected to face serious shortfalls for several years. The costs incurred by these employer tax credits will lead to real budget cuts and job losses in two or three years. A second problem with delaying the credits is that having to wait so long – up to two years in Massachusetts – to receive the credit makes it much less attractive to small firms that are struggling with cash flow in the current economic environment.
THERE IS ONLY ONE FEDERAL GOVERNMENT, BUT STATES DO HAVE BETTER OPTIONS THAN EMPLOYER TAX CREDITS

Given the small size of the credit, the existing volume of hiring and expansion at small firms, and the fact the states will have to cut spending in other areas, we cannot expect these credits to create jobs. Given the failure of the U.S. Senate to implement an effective second round of economic stimulus, states may despair of any productive policy solutions. But while there are no substitutes for federal action, there are more productive routes than these employer tax credits.

a. Education spending

By spending money in labor-intensive initiatives, or on programs that draw in matching federal dollars, states can create new jobs in a short period of time. Education generally and early childhood education in particular are two labor-intensive sectors where state spending could generate additional job growth. In Massachusetts, 27 jobs are created per million dollars of education spending; in Connecticut, the same funding creates 25.5 jobs. Early childhood education spending is even more effective, creating 30 and 33 jobs per million dollars in spending, respectively. Spending $50 million on education (including K-12, vocational, and higher education) would generate 1,351 additional jobs in Massachusetts; similar spending of $10 million would create 255 jobs in Connecticut and 263 jobs in Rhode Island (Table 1). Spending on early childhood education alone (including daycare centers, Headstart, and preschool) would create 1,498 jobs in Massachusetts, 333 in Connecticut, and 332 in Rhode Island.

b. Healthcare spending

While healthcare is not as labor intensive as education or early childhood education – as shown by the jobs per million dollars figures in Table 1 – healthcare spending by state governments does bring in additional federal dollars to the state. State Medicaid spending has a nearly 62 percent matching rate for 2010 in both Massachusetts and Connecticut; the federal government finances 62 cents of every dollar of Medicaid spending undertaken by the state. The matching rate for Rhode Island is nearly 64 percent. Thus a $50 million increase in spending by the state leverages $82 million in additional federal dollars, for a combined $132 million. As a result, $50 million in increased Medicaid spending by Massachusetts would create 2,352 jobs, and $10 million in spending would create 456 jobs in Connecticut and 559 in Rhode Island.

c. Infrastructure spending

Because it is relatively capital intensive, spending on infrastructure projects will not create as many jobs as spending in these other sectors, at least in the short run. The inherent value of infrastructure projects in a recession is that they enhance the long-term productivity of the state’s economy, and do so utilizing the labor and equipment of sectors that are disproportionately impacted in downturn. However, infrastructure projects frequently generate federal or private matching funds. If infrastructure investments were accompanied by significant matching funds (close to 40 percent of total costs), they would then generate additional employment at the same levels as overall state government spending.

d. Financing state spending

When states spend money on these program areas, people are put to work and jobs are created. If this spending is financed by simply reducing some other part of the state budget, however, the impact on jobs will be diminished considerably. Budget cuts and job losses in one part of the budget will undermine the
employment increases from spending on another part of the budget. Short of large increases in federal aid to the states, there is no way to finance spending in these areas that will not have some offsetting employment losses.

If, however, states financed this additional spending by raising taxes on affluent households instead of simply shifting spending out of other areas or enacting across-the-board tax increases, they could create a somewhat greater number of new jobs. Since low-income households generally spend nearly every dollar they earn, additional taxes on those households reduce consumer spending dollar for dollar. Affluent households, however, save considerable portions of their incomes; temporary tax increases on those households would reduce spending somewhat, but much less than dollar for dollar.\textsuperscript{30} Conservative estimates from research on consumer responses to changes in income and social security taxes suggest that affluent households might reduce their consumption by up to half of the amount of a temporary tax increase.\textsuperscript{31}

If additional spending on education and healthcare is financed by temporary taxes on high-income households (with incomes above $150,000), the impact on job creation will be somewhat greater than if the spending is based on simply shifts the existing budget. Financed in this way, spending $50 million in Massachusetts would generate 2,096 jobs in the healthcare sector, 1,096 jobs in education, 1,243 jobs in early childhood education, or 347 jobs in infrastructure. Spending $10 million in Connecticut would produce 409 jobs in the healthcare sector, 208 jobs in education, 286 jobs in early childhood education, or 69 jobs in infrastructure. And spending $10 million in Rhode Island would create 508 jobs in the healthcare sector, 212 jobs in education, 281 jobs in early childhood education, or 69 jobs in infrastructure.

CONCLUSION

Since they do little to increase aggregate demand, and instead only modestly reduce the after-tax cost of labor in an economy with high unemployment, falling wages, and weak demand, even the federal employer tax credit proposals should not be expected to dramatically increase employment. Because the state proposals are small, targeted to small firms, and – for Massachusetts and Connecticut – capped at relatively low levels they can be expected to generate little, if any, gross job gains. The credits are not generous enough to motivate firms that weren’t already planning on hiring to do so, and will possibly be entirely consumed by the existing volume of hiring and expansion at small firms. Since the state credits have to be financed under a balanced budget, they cannot be expected to cause net increases in employment. The job losses resulting from decreased state spending will almost certainly outstrip the number of jobs created by the credits. A more effective approach to creating jobs in the states would be to increase spending in labor-intensive sectors and programs that are matched by federal funds, such as Medicaid. These expenditures would be particularly effective if they were financed through temporary high-income tax increases.
Figure 1. Monthly Hiring in New England

Source: PERI analysis of BLS JOLTS data.
Table 1. State Spending Multipliers: Alternatives to Jobs Tax Credits

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| Massachusetts ($50 million in state investments)   |     |     |     |     |     |     |     |     |     |
| Education¹                                          | 50  | 1,351 | 17.2 | 10.2 | 27.0 | 5.1 | 21.9 | 255 | 1,096 |
| Child care²                                        | 50  | 1,498 | 19.4 | 10.6 | 30.0 | 5.1 | 24.9 | 255 | 1,243 |
| State & Local Investment³                          | 50  | 602  | 6.7  | 5.3  | 12.0 | 5.1 | 6.9  | 255 | 347  |
| Healthcare⁴                                        | 130 | 2,352 | 11.0 | 7.1  | 18.1 | 5.1 | 41.9 [13.0]* | 664 | 2,097 |

| Connecticut ($10 million in state investments)     |     |     |     |     |     |     |     |     |     |
| Education                                          | 10  | 255  | 16.2 | 9.3  | 25.5 | 4.7 | 20.8 | 47  | 208  |
| Child care                                         | 10  | 333  | 21.9 | 11.4 | 33.3 | 4.7 | 28.6 | 47  | 268  |
| State & Local Investment                           | 10  | 116  | 6.6  | 5.0  | 11.6 | 4.7 | 6.9  | 47  | 69   |
| Healthcare                                         | 26  | 456  | 10.7 | 6.8  | 17.5 | 4.7 | 40.9 [13.0] * | 122 | 409  |

| Rhode Island ($10 million in state investments)    |     |     |     |     |     |     |     |     |     |
| Education                                          | 10  | 263  | 17.0 | 9.3  | 26.3 | 5.1 | 21.2 | 51  | 212  |
| Child care                                         | 10  | 332  | 21.7 | 11.4 | 33.2 | 5.1 | 28.1 | 51  | 281  |
| State & Local Investment                           | 10  | 120  | 7.1  | 4.9  | 12.0 | 5.1 | 6.9  | 51  | 69   |
| Healthcare                                         | 28  | 559  | 12.8 | 7.4  | 20.2 | 5.1 | 47.4 [15.1]* | 141 | 508  |

Source: PERI and IMPLAN 2007

1 Education includes primary, secondary, college/university, and other (such as trade schools)
2 Child care includes daycare centers, home care, headstart, pre-school, and other modes of child care
3 State and Local investment includes infrastructure spending on buildings, roads, computer equipment, etc.
4 Healthcare includes matching funds from fed govt at rate of 0.616 fed dollars for each state dollar in MA and CT, and .639 in RI.

* Because of the generous federal matching rate for Medicaid spending, each dollar of Medicaid spending by the state leverages $1.60 in federal spending for MA and CT, and $1.80 for RI. This has a dramatic impact on the jobs generated by state expenditures.

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4 Both bills also include an additional $1,000 credit for employers’ income taxes if the jobs are year-round and last for at least one year.

5 Bartik, Tim, “Not All Job Creation Credits are Created Equal,” EPI, February 12, 2010. http://www.epi.org/analysis_and_opinion/entry/not_all_job_creation_tax_credits_are_created_equal/. Bartik estimates the $15 billion tax credit will create 200,000 jobs.

6 The Massachusetts credit requires the net increase in employment at the firm must be maintained for a year, not that the individual worker must remain with the firm for one year.

7 Governor Patrick’s proposal is available at: http://www.mass.gov/Agov3/docs/Legislation/02102010%20Job%20Creation%20Bill.pdf.

8 Governor Rell’s proposed tax credit is described at: http://www.ct.gov/governorrell/cwp/view.asp?a=3872&q=455212.

9 Hires eligible for the Connecticut credit must be employed in, but cannot have been hired during December. In the second and third years of the credit expansion (2011 and 2012), hires made during the last six months of the year are only eligible for a credit of $1,250.

10 Governor Carcieri’s proposal is available at: http://www.rilin.state.ri.us/BillText10/HouseText10/H7397.pdf.

11 Eligible firms must also have no more than 200 employees worldwide.

12 At a hearing in support of the Small Business Jobs Act, Rhode Island state economists acknowledged that many, if not most, of these 950 jobs would also have been have ultimately created even without the credit, but at a later point in time. So, the primary effect of the credit is anticipated to bring forward already-planned hiring.


20 The BLS Business Employment Dynamics (BED) data are available by firm size at the federal level, but only for all firms sizes combined at the state level. These small firm job creation estimates by state are based on the assumption that the distribution of gross job creation among small firms mirrors that of expanding firms of all sizes.

21 While the Connecticut credit is available to firms with 25 or fewer employees, the closest size class in the BLS data is for firms with 20 or fewer employees.

22 PERI analysis of BLS Business Employment Dynamics data.

23 These figures are based on analysis of the BLS JOLTS data, which are not available at the state level, only regionally. The Massachusetts figure assigns 13 percent of Northeast hires to Massachusetts, based on the state’s state of total employment in the Northeast between 1998 and 2008.

24 The state of Massachusetts’ own Job Vacancy Survey shows that there was an average of 50,000 active job openings during the 2nd quarter of 2009. http://lmi2.detma.org/Lmi/pdf/JobVac2009Q2.pdf


26 Bishop, 2008.

27 CBO, February 3, 2010


29 The estimates of employment gains and losses due to changes in state government policy changes in Massachusetts and Connecticut, reported in Table 1, are derived from an input-output model. The input-output model allows us to observe relationships between different industries in the production of goods and services. We can also observe relationships between consumers of goods and services, including households and governments, and the various producing industries. For our purposes specifically, the input-output modeling approach enables us to estimate the effects on employment resulting from an increase in government expenditures for the products or services of a given industry. For example, we can estimate the number of jobs directly created in the education industry for each $1 million of spending on education. We can also estimate the jobs that are indirectly created in other industries through the $1 million in spending on education—industries such as textbook publishing and school building construction. Overall, the input-output model allows us to estimate the economy-wide employment results from a given level of spending. For this report, we used the IMPLAN 2.0 software and IMPLAN 2007 state-level data. This data provides 440-industry level detail and is based on the Bureau of Economic Analysis (BEA) input-output tables.

30 According to the most recent data from the Survey of Consumer Finances, just 34 percent of low-income households (bottom fifth of the income distribution) had any savings in 2007, while 85 percent of high-income households (top ten percent of the income distribution) had savings. The typical (median) net worth (assets less debts) was $8,100 among low-income households, while it was more than $1.1 million for those with high incomes. Data from the Consumer Expenditure Survey (2008) show that low-income households actually spend more than they make (after-tax income), while high-income households spend just 64 percent of their income on average. For more detail on savings of affluent households and the relative benefits of temporary progressive taxes during a downturn, see Carroll, Christopher, 1998. “Why Do the Rich Save So Much,” NBER Working Paper #6549; Dynan, Karen, Jonathan Skinner, and Stephen Zeldes, 2000. “Do the Rich Save More?” NBER Working Paper #7906; Orszag, Peter and Joseph Stiglitz, 2001. “Budget Cuts Vs. Tax Increases at the State Level: Is one more counter-productive than the other During a Recession?” Center on Budget and Policy Priorities, November 6, 2001.

31 A number of studies have found that consumption does respond to tax changes, and that the response is smaller among higher-income households. Johnson et al (2006) find that high-income households spent roughly half of their 2001 income tax rebate on nondurable goods, while Parker (1999) showed that when the earnings of high-income households rose beyond the social security payroll tax cap, spending increased by one half of the predictable increase in after-tax income. (Johnson, David, Jonathan Parker, and Nicholas Souleles, 2006. “Household Expenditure and the Income Tax Rebates of 2001,” American Economic Review, Vol. 96(5), 1589-1610; Parker, Jonathan, “The Reaction of Household Consumption to Predictable Changes in Social Security Taxes.” American Economic Review, Vol. 89(4), 959-73.) For several reasons, we
consider the 50 percent reduction in spending by high-income households under a temporary tax increase to be fairly conservative. For one thing, households at the $69,000 considered by Johnson et al (2006) and at the Social Security cap considered by Parker (1999) are much closer to middle-income than high-income. These households will find it harder to maintain their desired level of consumption than households with incomes above $150,000 that we are considering here. In addition, the evidence in Johnson et al (2006) and Parker (1999) is based on consumer responses to a tax rebate. For affluent households, spending out of tax rebates will arguably be greater than reductions in spending out of temporary tax increases. This will be the case if the rebate is viewed as a one-off source of found money that can be spent on an extravagance, while the household is loathe to reduce its standard of living in response to a temporary tax increase.