

## Bridge to Permanent Immigration or Temporary Labor?

### The H-1B Visa Program Is A Source of Both

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### Introduction

Many members of the popular press, pundits, business and university leaders, and policy makers make an elementary, but critically important, error when discussing high-skill immigration. They equate guest worker visas, such as the H-1B, with permanent immigration.<sup>1</sup> Carly Fiorina, an advisor to John McCain’s presidential campaign in 2008 and former CEO of Hewlett-Packard, responded to a question on H-1Bs during the campaign this way, “It is in our economic interest to have really smart people wanting to come here. And so what’s wrong with the H-1B visa system today, among other things, is that we curtail that program so tightly that the limits that Congress allows for H-1B visa entrance are usually filled within one week. So we have to find a more practical system for allowing smart, hard-working people to come into this country and it should be our goal to get them to stay here forever” (Bomey 2008).

While permanent residence allows foreign nationals to live and work in the United States permanently, guest worker visas like an H-1B allow them to live and work in the United States only temporarily (not “forever”) and under circumstances that restrict their ability to stay in the country if they don’t keep their position. These circumstances could put guest workers in a precarious position that invites their exploitation, creates insecurity for them, and undermines the integrity of the labor market. Problems with guest worker programs are caused by the design of immigration policies—a combination of loopholes and the fact that employers, rather than workers, control the work permit.

While some H-1B visa holders do make it to permanent residence, many employers never plan to sponsor employees for permanent residence. These employers are using the H-1B program for purely temporary purposes, and their share of the H-1B visa numbers is large and increasing. This chapter will show that *most* of the top users of the H-1B visa programs sponsor very few, if any, of their workers for permanent residence. This analysis will also show that there are differences even within different divisions of the same company. There are also distinct employment patterns between firms that use the program for temporary labor versus those that sponsor for permanent residents. The former are using the program principally for offshoring work to lower cost countries. They pay lower wages, have flatter wage distributions, source a much higher share of their H-1Bs from India, and a higher proportion of their H-1Bs hold no more than a Bachelors degree. Finally, the chapter proposes policy recommendations to overhaul the guest worker visa programs to ensure that foreign workers cannot be exploited and American workers are not undercut.

The H-1B guest worker program have become bifurcated, with some employers using the H-1B visa program as a bridge to permanent immigration while other employers use it simply for temporary labor mobility. And given the relatively low wages that can be paid to these visa holders, rather than attracting the “best and brightest” for permanent immigration, as many have claimed, the programs have increasingly been used for temporary labor mobility to transfer work overseas and to take advantage of lower cost, guest worker labor.

## **Permanent residents versus guest worker status**

The distinction between a permanent residence visa, commonly called a green card, and guest worker status is substantial and has important economic and policy implications, particularly for the high-skilled labor market (and especially in the information technology and engineering labor markets). Permanent residents have similar employment rights as American citizens—they are eligible to apply for nearly all the same jobs as citizens, and they can stay in the United States even if they are out of the labor market.

On the other hand, H-1B visas are work permits held by a specific employer for a up to six years. Since the employer holds the work permit, H-1B visa workers can only switch jobs in limited circumstances, and their employer can revoke the visa at any time by terminating their employment, forcing the worker out of status with immigration authorities. If employment is terminated, the worker must leave the country immediately.<sup>2</sup> In contrast to the employment rights of citizens and permanent residents, H-1B rules place most of the power in the hands of the employer at the expense of the guest worker and create opportunities for the leverage over guest workers. Some have described this employment relationship as indentured servitude. (Ray Marshall citation)

A 2009 *BusinessWeek* cover story profiling the exploitation of H-1B workers was called, “America’s High Tech Sweatshops” (Hamm and Herbst 2009). Also in 2009, the Louisiana Federation of Teachers recently filed a complaint on behalf of teachers brought in from the Philippines, who were being held in “virtual servitude.” Their employer intimidated them, charged exorbitant and unnecessary fees, and forced them to live in roach-infested, run-down apartments leased by the employer (Toppo and Fernandez 2009). But this is not new; the exploitation of high-skill guest workers has been a recurring story because policy makers have chosen not to fix the well-documented problems, which have only gotten worse. Back in 1993, CBS’s *60 Minutes* television show aired a story on H-1B computer programmers who were contracted out to Hewlett-Packard for a mere \$10 per hour, nowhere near what the company would have to pay permanent residents.<sup>3</sup>

Current U.S. immigration policy favors family-based immigration, which accounts for about 65% of the approximately 1 million new permanent immigrants annually. Many skilled immigrants come through family-based immigration, but H-1B visas can serve as important sources of skilled permanent immigration. A majority of permanent, employment-based immigrants were originally H-1Bs. The visas are “dual-intent,” meaning that while visa holders are here temporarily on non-immigrant work permits, their status does not preclude them from staying permanently if their employer chooses to apply for an employment-based permanent immigration visa. Employment-based immigration accounts for approximately 15% of permanent immigration, and some researchers estimate that 62% of employment-based permanent immigrants began as H-1B temporary workers (Jasso, Guillermina et al., 2010).

To be clear, to say that the H-1B account for a majority of employment-based-permanent immigration is not the same as saying that most H-1Bs become permanent residents. These are two different measures. The former says that H-1Bs are major sources of employment-based permanent immigrants, while the latter is a measure of whether employers sponsor H-1B workers for permanent immigration.

Except in very special cases, H-1B workers cannot sponsor themselves for permanent immigration. Only employers have that authority and exercise it at their discretion. For those guest workers who want to stay permanently, it puts additional power in the hands of their employers, power that employers have lobbied to maintain. For example, during the 2007 debate over comprehensive immigration reform, businesses fought against an allocation of self-sponsored high-skill immigrant visas based on a merit point system, arguing that they, as employers know best what kind of workers are needed in the United States (Hennesy-Fiske and Puzanghera 2007).

## **H-1B visas: Pre-immigration vs. temporary worker**

The **H-1B** is a non-immigrant visa under the Immigration and Nationality Act (INA), section 101(a)(15)(H). It allows employers within the United States to temporarily employ foreign workers in specialty occupations.

The regulations define a “specialty occupation” as requiring theoretical and practical application of a body of highly specialized knowledge in a field of human endeavor including, but not limited to, architecture, engineering, mathematics, physical sciences, social sciences, biotechnology, medicine and health, education, law, accounting, business specialties, theology, and the arts, and requiring, with the exception of fashion models, the attainment of a bachelor’s degree or its equivalent as a minimum. Likewise, the foreign worker must possess at least a bachelor’s degree or its equivalent and state licensure, if required to practice in that field. H-1B work authorization is strictly limited to employment by the sponsoring employer. In sum, an H-1B visa can be used for a wide variety of occupations that require a bachelor’s degree.

The duration of the visa is three years, extendable to a maximum of six. This can be extended indefinitely beyond the six years, in one year increments, if the employer is sponsoring the H-1B worker for permanent residence.

## **The data**

### **H-1B**

The H-1B is a very large guest worker program, admitting 136,890 *new* foreign workers in fiscal year 2012 alone (Characteristics of Specialty Occupations, FY2012, USCIS). While no one knows the exact number of H-1B holders in the United States at any one time, because the government does not track those numbers, estimates are in the range of 650,000.

For the H-1B data, I am using micro-data for I-129 petitions approved by USCIS. I received the micro-data via a Freedom of Information Act (FOIA) request in 2013. The dataset cover all approved petitions

for Fiscal Years 2010-2012. Each petition is for an individual worker and includes the name of the employer as well as specific characteristics such as wages, highest education level attained, and worker's country of origin. The dataset was cleaned to correct for firm misspellings and to consolidate firm subsidiaries.

## **PERM**

A non-immigrant visa can be an important first step toward permanent residence for many skilled foreign workers, but most never make it. Even before the emergence of the offshoring of high-skill jobs, many H-1Bs were never converted to permanent residence by employers. Nearly a decade ago, Lowell (2000) estimated that only 50% of H-1Bs become permanent residents.

To examine this more closely I estimate permanent sponsorship rates by employer, for the top twenty H-1B, by using the Program Electronic Review Management (PERM) database, which is kept by the U.S. Department of Labor's Office of Foreign Labor Certification.<sup>4</sup> Employment-based immigration is a four-step process. The first step, sometimes called pre-PERM, is for the employer to complete active recruitment of U.S. workers, by advertising in newspapers and collecting applications.<sup>5</sup> Once the recruitment takes place, and presumably the employer has not found a qualified American applicant, the employer files an "Application for Permanent Employment Certification" (ETA Form 9089) with the U.S. Department of Labor. The data for each of these cases are entered into the PERM database. I have combined the FY2010, 2011, and 2012 datasets.

According to the PERM database (the U.S. Department of Labor's Permanent Labor Certification Program Database), H-1Bs accounted for 77% of the permanent residence applications, or 142,695 of the 184,682, in the three year period FY2010-12.

## **Different uses: Pre-immigration vs. way station**

As mentioned earlier, what is overlooked in the high-skill immigration discussion is how different employers use the H-1B program either as a bridge to permanent immigration or as a temporary labor mobility program. Even within different divisions of the same company, employers will use its guest worker visas differently—some divisions use it for a conversion to permanent residence while other divisions use it purely for temporary labor mobility. An exemplary case of this divergence is Silicon Valley-based software giant Oracle Corporation. When asked whether Oracle uses the H-1B program as a bridge to immigration, Robert Hoffman, then lobbyist and vice-president for government affairs at Oracle, stated, "More than 90% of Oracle's visa workers are trying to stay in the United States and are on the path to permanent residency." (McGee 2007).

At nearly the same time, Shahab Alam, an executive of I-Flex (now known as Oracle Financial Solutions), a subsidiary of Oracle, described its use of the H-1B visas as unrelated to permanent residency:<sup>6</sup>

Most of the people coming through us [on H-1B] have no intention of settling in the United States. These are folks who are coming here to do a job, have fun while they can in the United States, and then use this experience in different parts of the world.<sup>7</sup>

The government does not directly measure the conversion from temporary to permanent resident, but we can use available data to estimate it. To examine this “bridge to immigration” I introduce a measure I call *immigration yield*, which is the ratio of PERM applications filed to initial H-1B petitions received by a specific employer. Micro-data on the top PERM applications are available from the U.S. Department of Labor’s Office of Foreign Labor Certification.<sup>8</sup> Beginning in 2007, the PERM data included the current visa status (H-1B, L-1, O-1, E-3, etc.) for each employee, so one could calculate the yield for each visa type. Ideally, we would be able to track each individual guest worker to identify whether they are sponsored for, and later granted, permanent residence, but names of workers are considered private and therefore not released in either the H-1B I-129 data nor the PERM data.

The data presented below should be viewed as *indicators* of the conversion rates for different employers rather than as literal rates. There are a number of reasons for this limitation. First, employers choose when to sponsor a guest worker for permanent residence. The employer could wait a number of years before beginning the process. To mitigate these effects I am using a three-year period FY2010-12 instead of just one. Even after an employer initiates the process for converting a guest worker from an H-1B there is a lead time before the application appears in the PERM database. The lead times are due to regulatory requirements such as advertising the position in newspapers to search for American workers and for Department of Labor processing. Lastly, there are some workers, so-called priority workers, persons of extraordinary ability or multinational executives or university professors, who are sponsored on EB-1 permanent visas. Those workers are not subject to the labor certification, so their employer can bypass the form that populates the PERM database. In FY2012, EB-1’s accounted for 16,286 of the employment-based permanent residences granted and the majority, 9,209, were for multinational executives on L-1A, a different guest worker visa used for intracompany transfers (U.S. Department of Homeland Security 2012). The small numbers of H-1Bs who are sponsored through an EB-1 are not likely to bias the conversion rates discussed below.

Notwithstanding these limitations the data show very clear and distinctive patterns of H-1B use by employers: some use it for purely temporary purposes while others use it as a bridge to permanent immigration.

**Table 1** shows the immigration yields for the top 20 H-1B employer for the three year period FY2010-12. The top 20 H-1B employers account for a large share of the FY2010-12 visas issued. These visas are capped with an annual quota of 85,000. The top 20 H-1B employers received 80,917 or 32% of the three years’ worth of 255,000 allotted. These firms are a significant determinant of the impact of the H-1B program on the US economy and labor market. As I have written before, H-1B visa use is driven by particular business models.<sup>9</sup> I structure the analysis below around these business models in order to discern patterns. The first one is the significant offshoring business model, in which companies perform most of their work overseas in low-cost countries. These companies include big names pure-play offshore outsourcing firm in information technology (IT) such as Cognizant, Infosys, Wipro, and Tata Consultancy Services. In this group I am also including firms that have built up significant offshore outsourcing

operations. These include major IT and consulting firms like Accenture, Deloitte, and IBM. The second category is firms that do not provide significant offshoring outsourcing, such as product firms like Intel, Qualcomm, and Microsoft.

### **Firms with significant offshoring**

First, turning to the H-1B visa rankings of the offshore outsourcing firms shown in **Table 2A**. These companies perform most of their work overseas in low-cost countries. The immigration yield for most of the major offshore outsourcing firms is very low for FY10-12, indicating that these firms have little interest in converting their H-1B employees to permanent residence. As the rankings show, these firms are the largest users of the H-1B program, making up 15 of the top 20 users. Those 15 firms alone received nearly 70,000 visas or 86% of the top 20. The list here also mirrors the largest of the offshore outsourcing firms. The business model of these firms is to transfer labor overseas—not to hire in the United States permanently. In fact, many of these firms hire very few American citizens and, as their immigration yields show, sponsor few H-1Bs for permanent residence (Srivastava and Herbst 2010). Tata Consultancy Services, the largest Indian-based offshore outsourcing firm, did not file for a single permanent resident for any of its H-1Bs.

The pure-play offshore outsourcing firms all have immigration yields at 12% or below. Cognizant, the top firm is headquartered in the United States, and has a high immigration yield of 12%.<sup>10</sup> IBM is a hybrid firm, with business lines beyond offshoring that include product lines of semiconductors and packaged software. IBM India, which applied for zero PERMs, is a wholly owned subsidiary of U.S.-based IBM.<sup>11</sup> Its operations are similar to the other pure-play offshore outsourcing firms and IBM identifies Wipro and Satyam as IBM India's competitors in its annual report.<sup>12</sup> Two outliers in this list are Deloitte and PriceWaterhouseCoopers, with immigration yields of 21% and 37% respectively. Both firms are part of the Big 4 accounting industry. They use the H-1B program for multiple purposes, for different business lines. Both have core tax and audit business lines, which use the H-1B program mostly as a bridge to permanent residence, while their consulting arms, which compete directly with Accenture and IBM in the offshore outsourcing sector, use the H-1B for temporary mobility.

It is clear that these firms have little or no interest in sponsoring their H-1B workers for permanent residence, and some have been quite clear about it publicly. Most of the firms in Table 2A are members of NASSCOM, India's offshore outsourcing trade association. While president of NASSCOM, Som Mittal, a former executive of Hewlett-Packard India, described why the H-1B program is so important to his member firms, "We need for people to travel back and forth between the United States and India to consult on and complete projects" (Herbst 2009). Note NASSCOM and the Indian government view the H-1B visa as trade, rather than immigration, policy issues. They believe that their primary comparative advantage is low-cost high-skilled workers, and that H-1B regulations, such as wage floors and quotas, are non-tariff barriers to trade.

### **Why not hire American workers?**

With the abundant and easy availability of H-1B visas, coupled with loopholes that allow below-market wages, offshore outsourcing firms have had little reason to hire American workers. For example, even though Tata Consultancy had more 10,843 workers in the US in 2007, only 739 (9%) were Americans. Why are these firms not interested in hiring American workers?

Offshore outsourcing firms rely on the H-1B programs for three principal reasons. First, it facilitates their knowledge-transfer operations, where they rotate in foreign workers to learn U.S. workers' jobs. Second, the H-1B program provides them an inexpensive, on-site presence that enables them to coordinate offshore functions. Many functions that are done remotely still require a significant amount of physical presence at the customer site. For example, according to its own financial reporting, Infosys' on-site workers, almost all of whom are foreign guest workers, directly accounted for 46% of its revenue in its most recent quarter (Infosys 2009). And according to a Tata Consultancy Services executive, H-1B workers are less expensive than comparable American workers. Then Vice President Phiroz Vandrevalla described, in an interview with an India-based business magazine, how his company derives competitive advantages by paying its visa holders below-market wages:

Our wage per employee is 20-25 percent lesser than U.S. wage for a similar employee," Vandrevalla said. "Typically, for a TCS employee with five years experience, the annual cost to the company is \$60,000-70,000, while a local American employee might cost \$80,000-100,000. This (labour arbitrage) is a fact of doing work onsite. It's a fact that Indian IT companies have an advantage here and there's nothing wrong in that. . . .The issue is that of getting workers in the U.S. on wages far lower than local wage rate. (Singh 2003)

Industry observers say that the H-1B program allows IT services firms to save 20% to 25% by hiring an H-1B worker over hiring an American one (Neeraj Gupta and Brian Keane testimonies 2013).

Third, the H-1B program allows the U.S. operations to serve as a training ground for foreign workers who then rotate back to their home country to do the work more effectively than they could have without such training in the United States. A *BusinessWeek* story described Wipro's use of the H-1B program this way: "Wipro has more than 4,000 employees in the United States, and roughly 2,500 are on H-1B visas. About 1,000 new temporary workers come to the country each year, while 1,000 rotate back to India, with improved skills to serve clients" (Elstrom 2007).

There are some firms that use the H-1B visas for knowledge transfer with the explicit purpose of laying off their higher-cost American workers. Firms sometimes do the replacement through contractors. An example of this behavior in 2003 gained Congressional attention and was the centerpiece of a number of Congressional hearings. In Lake Mary, Florida, Siemens used Tata Consultancy Services to replace its American workers with guest workers earning one-third of the wages. In an award-winning series, business reporter Lee Howard of *The Day* newspaper documented how Pfizer was forcing its U.S. workers to train foreign replacements from offshore outsourcers Infosys and Satyam (Howard 2008). In another example, the television ratings firm Nielsen forced its American workers to train foreign replacements working for Tata Consultancy Services. This took place in spite of Nielsen receiving tax incentives from local government to create jobs (Kruse and Blackwell 2008). And in 2009, workers at Wachovia, which was still being bailed out by the government through TARP, claimed they were training their foreign replacements on H-1B visas (Bradley 2009).

Far from sponsoring workers for permanent residence, some firms are "banking" visas, i.e., keeping excess H-1B workers in their home countries and sending them to the United States only as the need arises. The firms measure their slack H-1B visas in terms of utilization rates; that is, what percent of their

H-1Bs are actively in the United States. During an earnings call with Wall Street research analysts covering the firm, Infosys' COO Kris responded to questions about whether it has adequate visas by saying,

It is 37% of the total visas available right now with Infosys is being used. That means we have remaining 63% of the people having visas available to put on projects. So it gives us a better utilization rate or -- so it gives us the flexibility. We typically get worried when it reaches 50%-55% because that means that we may not be able to find the right people with the visas two [sic] deploy on the project, so 37% is a comfortable number. (Infosys 2005)

These guest worker visas are so integral to the offshore outsourcing firms that then Indian Commerce Minister Kamal Nath called the H-1B the "outsourcing visa" in an interview with the *New York Times* while arguing for an increase in the H-1B cap (Lohr 2007).

In responding to the competitive threat from offshore outsourcing firms like Infosys, many multi-national corporations, which until recently have had traditional business models, have moved very aggressively to adopt their own offshore outsourcing business model. The primary business model of these firms is not offshore outsourcing, but they have built up significant offshore outsourcing operations. Some of these firms, such as Hewlett-Packard (HP), have done this through acquisitions (HP acquired EDS and Mphasis), or through subsidiaries, while others have simply transferred work to new employees in low-cost countries. Accenture and IBM provide interesting cases. Accenture has built up its workforce in low-cost countries very quickly. According to its CEO, as of August 2007, Accenture had more employees in India than any other country, including the United States (Chatterjee 2007). Similarly IBM has increased its workforce in India very dramatically. From a mere 6,000 workers in India in 2003, its headcount rose to 74,000 by 2007 and is projected to reach 100,000 by 2010 (D'Souza 2008; McDougall 2006). Given the continuing downsizing of its U.S. workforce, reduced to 115,000 in 2009, India will likely become its largest workforce by sometime in 2010 (Lohr 2009).

### **Product firms**

**Table 2B** shows that product firms, which are not in the business of offshore outsourcing, are clustered into two groups with respect to their immigration yields. First, firms like Microsoft, Qualcomm are heavy users of the H-1B and are trying to convert a large share of them to permanent residence. Then there is a group, Google, Intel and Amazon where employers are converting about one-half of their H-1Bs to permanent residence.

It is clear from the data that many, if not most, of the top H-1B and L-1 employers do not use the visa programs as a bridge to permanent immigration. These visa programs are being used in substantial ways simply for temporary labor.

### **Characteristics of H-1B Use: Offshoring vs. Product Firms**

There are other important differences in how offshoring firms vs. product firms use the H-1B program. **Tables 3A and 3B** show the wage distributions of the firms with significant offshoring versus product firms. The firms with significant offshoring all have lower absolute levels of wages, with medians ranging



from \$54,000 to \$70,500. The product firms' median wages range from \$85,000 to \$110,000. Some pure-play offshore outsourcing firms have very flat wage distributions. For example, Infosys' wage at the 75<sup>th</sup> percentile is \$60,000 and is exactly the same as its wage at the 5<sup>th</sup> percentile. This is likely due to the fact that H-1B regulations are more stringent for heavy users of H-1B firms (so-called H-1B dependent) that pay workers less than \$60,000. The H-1B dependent firms must perform active recruitment and adhere to non-displacement requirements. Infosys is able to achieve regulatory relief by paying at least \$60,000. While product firms generally pay higher wages than offshoring, that doesn't mean that they are not using the H-1B program for below-market wages. The H-1B worker is still tethered to the firm and dependent on its sponsorship for permanent residency. A deeper analysis of the wages of H-1B workers is needed to examine whether they are being paid market wages.

**Tables 4A and 4B** show a striking difference in the source countries of H-1Bs for the offshoring vs. product firms is also striking. With the exception of PriceWaterhouseCoopers and Deloitte, all of the offshoring firms have more than 90% of their H-1Bs come from India. For some, like US-based firms Cognizant and Syntel virtually all of their H-1Bs are from India. This is likely due to the fact that the primary offshoring country for all of these firms is India. For the product firms, India is still the top source country for their H-1Bs, but it isn't nearly as dominant. In the case of Google, China is the top source country for its H-1Bs. The product firm reliance on H-1B workers from India means that many of their workers will be waiting in long lines for permanent residency. There are per-country limits within the legal permanent resident quotas, and in the case of India, as of October 2013 the backlog times range from five years for advanced degree holders and ten years for those with no more than a Bachelors degree (US State Department [http://travel.state.gov/visa/bulletin/bulletin\\_6062.html](http://travel.state.gov/visa/bulletin/bulletin_6062.html) see Employment Based Table).

**Tables 5A and 5B** show the H-1B beneficiary's highest level of education, Bachelors, Masters, or Doctorate. For the offshoring firms, Bachelors is the largest share of its H-1B workforce. For Infosys it accounts for 86%. Further, these firms hire virtually no Doctorate holders, with IBM being the sole exception. As explained earlier, IBM is a hybrid company with business lines in offshoring as well as products like semiconductors and software. For the product firms, more than half of the H-1B workers for Amazon and Microsoft hold no more than a Bachelors degree. Intel, Google, and Qualcomm all hire some doctorate holders, with nearly one-third of Intel's H-1B workers holding a Doctorate. The low level of educational attainment is particularly surprising since much of the policy discussion over H-1Bs present them as recent advanced degree graduates of US universities. The educational bar for American workers and students to fill these positions is much lower than is widely believed.

## Conclusion

To better understand the impacts of the H-1B program on the US economy and labor market as well as for immigration policy, analysts need to examine the variations in how firms use the program. The analysis here is a first step in categorizing the use of the H-1B program by those firms that use it as a bridge to permanent immigration versus those that are using it for temporary labor mobility. Amongst the top twenty H-1B employers, offshoring firms sponsor few, if any, of its H-1B workers for permanent residency while product firms tend to sponsor at higher rates. Further, amongst the top twenty H-1B employers, offshoring firms tend to pay lower wages, have a flatter wage distribution, and hire H-1B

workers with lower levels of educational attainment. And offshoring firms rely on H-1B workers from India at the virtual exclusion of workers from any other country. Further analysis of the H-1B data at the firm and industry level, using I-129 micro-data, can shed light about program impacts and provide policymakers with a better understanding about how to craft policy changes.

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**Table 1: FY10-12 Top 20 H-1B Employers: Immigration Yield**

H-1B Rank	Firm	FY10-12 New H-1Bs Received	FY10-12 PERM Applications for H-1B Workers	Immigration Yield	Significant Offshoring
1	Cognizant	17,964	2,228	12%	X
2	Tata Consultancy Services	9,083	-	0%	X
3	Wipro	8,726	98	1%	X
4	Infosys	6,550	129	2%	X
5	Accenture	5,799	27	0%	X
6	Microsoft	4,766	4,265	89%	
7	IBM	3,770	462	12%	X
8	Larsen & Toubro	3,286	50	2%	X
9	HCL	3,074	276	9%	X
10	Deloitte	2,850	591	21%	X
11	Mahindra Satyam	2,535	41	2%	X
12	Intel Corp	2,036	917	45%	
13	Patni Igate	1,960	186	9%	X
14	Syntel	1,646	53	3%	X
15	Google	1,477	705	48%	
16	Amazon	1,378	614	45%	
17	Qualcomm	1,265	1,247	99%	
18	PriceWaterhouseCoopers	1,059	392	37%	X
19	Mphasis	993	106	11%	X
20	Synechron	700	26	4%	X
	<b>Total</b>	<b>80,917</b>	<b>12,413</b>	<b>15%</b>	<b>15 of 20</b>

Sources: H-1B Data from USCIS I-129 microdata; PERM data from U.S. Department of Labor, Foreign Labor Certification Data Center

**Table 2A: Offshoring Firms: Immigration Yield**

<b>H-1B Rank</b>	<b>Firm</b>	<b>FY10-12 New H-1Bs Received</b>	<b>FY10-12 PERM Applications for H-1B Workers</b>	<b>Immigration Yield</b>
1	Cognizant	17,964	2,228	12%
2	Tata Consultancy Services	9,083	-	0%
3	Wipro	8,726	98	1%
4	Infosys	6,550	129	2%
5	Accenture	5,799	27	0%
7	IBM	3,770	462	12%
8	Larsen & Toubro	3,286	50	2%
9	HCL	3,074	276	9%
10	Deloitte	2,850	591	21%
11	Mahindra Satyam	2,535	41	2%
13	Patni Igate	1,960	186	9%
14	Syntel	1,646	53	3%
18	PriceWaterhouseCoopers	1,059	392	37%
19	Mphasis	993	106	11%
20	Synechron	700	26	4%

Sources: H-1B Data from USCIS I-129 microdata; PERM data from U.S. Department of Labor, Foreign Labor Certification Data Center

**Table 2B: Product Firms: Immigration Yield**

<b>H-1B Rank</b>	<b>Firm</b>	<b>FY10-12 New H-1Bs Received</b>	<b>FY10-12 PERM Applications for H-1B Workers</b>	<b>Immigration Yield</b>
6	Microsoft	4,766	4,265	89%
12	Intel Corp	2,036	917	45%
15	Google	1,477	705	48%
16	Amazon	1,378	614	45%
17	Qualcomm	1,265	1,247	99%

Sources: H-1B Data from USCIS I-129 microdata; PERM data from U.S. Department of Labor, Foreign Labor Certification Data Center

**Table 3A: Offshoring Firms: Wage Distribution**

H-1B Rank	Firm	FY10-12 New H-1Bs							
		Received	5th Percentile	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	95th Percentile
1	Cognizant	17,964	\$ 51,000	\$ 53,100	\$ 57,100	\$ 61,197	\$ 70,500	\$ 77,000	\$ 85,483
2	Tata Consultancy Services	9,083	\$ 58,000	\$ 61,200	\$ 61,800	\$ 64,900	\$ 65,700	\$ 66,480	\$ 66,900
3	Wipro	8,726	\$ 60,000	\$ 60,000	\$ 60,000	\$ 64,854	\$ 71,406	\$ 78,136	\$ 85,946
4	Infosys	6,550	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 71,822	\$ 78,811
5	Accenture	5,799	\$ 48,600	\$ 52,900	\$ 58,500	\$ 64,700	\$ 70,100	\$ 81,300	\$ 88,900
7	IBM	3,770	\$ 58,200	\$ 60,000	\$ 64,200	\$ 70,500	\$ 80,205	\$ 100,000	\$ 115,000
8	Larsen & Toubro	3,286	\$ 44,700	\$ 46,860	\$ 51,460	\$ 56,226	\$ 60,268	\$ 65,273	\$ 69,868
9	HCL	3,074	\$ 51,854	\$ 55,643	\$ 60,000	\$ 61,000	\$ 68,100	\$ 76,870	\$ 84,083
10	Deloitte	2,850	\$ 50,000	\$ 54,960	\$ 61,526	\$ 68,500	\$ 80,000	\$ 105,000	\$ 130,000
11	Mahindra Satyam	2,535	\$ 60,000	\$ 60,000	\$ 60,000	\$ 62,400	\$ 68,109	\$ 75,629	\$ 79,102
13	Patni Igate	1,960	\$ 46,790	\$ 48,800	\$ 55,600	\$ 62,900	\$ 70,100	\$ 76,400	\$ 79,525
14	Syntel	1,646	\$ 54,000	\$ 54,000	\$ 54,000	\$ 54,000	\$ 62,000	\$ 70,000	\$ 75,347
18	PriceWaterhouseCoopers	1,059	\$ 50,000	\$ 51,500	\$ 55,000	\$ 60,000	\$ 75,000	\$ 100,000	\$ 120,000
19	Mphasis	993	\$ 60,000	\$ 60,000	\$ 60,000	\$ 62,130	\$ 67,870	\$ 76,353	\$ 80,475
20	Synechron	700	\$ 61,400	\$ 62,000	\$ 65,200	\$ 68,500	\$ 72,000	\$ 76,720	\$ 81,634

Source: USCIS I-129 microdata



**Table 3B: Product Firms: Wage Distribution**

		<b>FY10-12</b>							
		<b>New H-</b>							
<b>H-1B</b>		<b>1Bs</b>	<b>5th</b>	<b>10th</b>	<b>25th</b>	<b>Median</b>	<b>75th</b>	<b>90th</b>	<b>95th</b>
<b>Rank</b>	<b>Firm</b>	<b>Received</b>	<b>Percentile</b>	<b>Percentile</b>	<b>Percentile</b>		<b>Percentile</b>	<b>Percentile</b>	<b>Percentile</b>
6	Microsoft	4,766	\$ 78,000	\$ 80,000	\$ 81,000	\$ 95,000	\$ 104,000	\$ 120,000	\$ 130,661
12	Intel Corp	2,036	\$ 72,400	\$ 73,800	\$ 77,392	\$ 84,976	\$ 100,000	\$ 105,400	\$ 113,100
15	Google	1,477	\$ 81,800	\$ 88,000	\$ 100,000	\$ 110,000	\$ 127,000	\$ 135,000	\$ 150,000
16	Amazon	1,378	\$ 80,000	\$ 87,000	\$ 90,000	\$ 95,000	\$ 100,000	\$ 115,000	\$ 120,000
17	Qualcomm	1,265	\$ 77,151	\$ 80,018	\$ 82,493	\$ 85,010	\$ 102,856	\$ 115,003	\$ 125,008

Source: USCIS I-129 microdata

**Table 4A: Offshoring Firms: Top Source Country for H-1B Workers**

<b>H-1B Rank</b>	<b>Firm</b>	<b>FY10-12 New H-1Bs Received</b>	<b>Top Source Country</b>	<b>Number</b>	<b>Top Source Country Share of Total</b>
1	Cognizant	17,964	INDIA	17,898	100%
2	Tata Consultancy Services	9,083	INDIA	9,057	100%
3	Wipro	8,726	INDIA	8,687	100%
4	Infosys	6,550	INDIA	6,341	97%
5	Accenture	5,799	INDIA	5,503	95%
7	IBM	3,770	INDIA	3,420	91%
8	Larsen & Toubro	3,286	INDIA	3,275	100%
9	HCL	3,074	INDIA	3,048	99%
10	Deloitte	2,850	INDIA	1,981	70%
11	Mahindra Satyam	2,535	INDIA	2,524	100%
13	Patni Igate	1,960	INDIA	1,943	99%
14	Syntel	1,646	INDIA	1,642	100%
18	PriceWaterhouseCoopers	1,059	INDIA	318	30%
19	Mphasis	993	INDIA	989	100%
20	Synechron	700	INDIA	692	99%

Source: USCIS I-129 microdata

**Table 4B: Product Firms: Top Source Country for H-1B Workers**

<b>H-1B Rank</b>	<b>Firm</b>	<b>FY10-12 New H-1Bs Received</b>	<b>Top Source Country</b>	<b>Number</b>	<b>Top Source Country Share of Total</b>
6	Microsoft	4,766	INDIA	1,382	29%
12	Intel Corp	2,036	INDIA	1,354	67%
15	Google	1,477	CHINA, PEOPLE'S REPUBLIC OF	321	22%
16	Amazon	1,378	INDIA	644	47%
17	Qualcomm	1,265	INDIA	726	57%

Source: USCIS I-129 microdata

**Table 5A: Offshoring Firms: Highest Level of Education for H-1B Workers**

H-1B Rank	Firm	FY10-12 New H-1Bs Received	Highest Level Of Ed is BS	BS Share of Total	Highest Level of Ed is MS	MS Share of Total	Highest Level of Ed is Doctorate	PhD Share of Total
1	Cognizant	17,964	14,467	81%	3,486	19%	2	0%
2	Tata Consultancy Services	9,083	7,053	78%	2,023	22%	1	0%
3	Wipro	8,726	5,510	63%	3,057	35%	5	0%
4	Infosys	6,550	5,613	86%	905	14%	4	0%
5	Accenture	5,799	4,221	73%	1,565	27%	7	0%
7	IBM	3,770	2,253	60%	1,273	34%	226	6%
8	Larsen & Toubro	3,286	2,756	84%	530	16%		0%
9	HCL	3,074	1,759	57%	1,289	42%	3	0%
10	Deloitte	2,850	1,964	69%	866	30%	6	0%
11	Mahindra Satyam	2,535	1,703	67%	816	32%	2	0%
13	Patni Igate	1,960	1,487	76%	465	24%	3	0%
14	Syntel	1,646	1,172	71%	472	29%		0%
18	PriceWaterhouseCoopers	1,059	668	63%	374	35%	6	1%
19	Mphasis	993	642	65%	340	34%		0%
20	Synechron	700	419	60%	277	40%		0%

Source: USCIS I-129 microdata

**Table 5B: Product Firms: Highest Level of Education for H-1B Workers**

<b>H-1B Rank</b>	<b>Firm</b>	<b>FY10-12 New H-1Bs Received</b>	<b>Highest Level Of Ed is BS</b>	<b>BS Share of Total</b>	<b>Highest Level of Ed is MS</b>	<b>MS Share of Total</b>	<b>Highest Level of Ed is Doctorate</b>	<b>PhD Share of Total</b>
6	Microsoft	4,766	2,966	62%	1,564	33%	213	4%
12	Intel Corp	2,036	156	8%	1,231	60%	640	31%
15	Google	1,477	650	44%	668	45%	148	10%
16	Amazon	1,378	730	53%	584	42%	60	4%
17	Qualcomm	1,265	444	35%	711	56%	109	9%

Source: USCIS I-129 microdata

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<sup>1</sup> Some justify an expansion of the H-1B program on the grounds that immigrants found new companies in the United States. However, by regulations H-1Bs are not allowed to found a company. See for example, Thomas Friedman’s column, “Open Door Bailout,” *New York Times*, February 10, 2009; Washington Post Editorial, “A Recipe for Weakness,” June 4, 2008.

<sup>2</sup> Generally, workers who are laid off try to switch status to a non-work temporary visa, such as a tourist visa, while they search for work.

<sup>3</sup> <http://www.zazona.com/SHAMEH1B/Library/Archives/60Minutes.htm>

<sup>4</sup> The data can be found here: <http://www.flcdatcenter.com/CasePerm.aspx>

<sup>5</sup> Note a number of serious weaknesses in this process have been identified, where firms simply go through the motions of recruitment with the goal of excluding qualified American workers from being hired. This process was described in a video made by the immigration law firm, Cohen & Grigsby, in a marketing seminar. The video became viral in 2007 and excerpts can be seen here: <http://www.youtube.com/watch?v=TCbFEgFajGU> American worker groups like the Programmers Guild have complained repeatedly about what they describe as “fake PERM ads”, where these ads are not bona fide job opportunities.

<sup>6</sup> “H-1B visa just a ticket to the way station,” NPR’s Marketplace Radio, July 30, 2007

[http://marketplace.publicradio.org/display/web/2007/07/30/h1b\\_visa\\_just\\_a\\_ticket\\_to\\_the\\_way\\_station/](http://marketplace.publicradio.org/display/web/2007/07/30/h1b_visa_just_a_ticket_to_the_way_station/)

<sup>7</sup> This contrast between Oracle and I-Flex is particularly important because Robert Hoffman served as the chief spokesperson for Compete America, the primary lobbying coalition fighting for H-1B increases and fighting against H-1B and L-1 visa reform. Given the significant use of H-1Bs and L-1s by I-Flex, the only way Hoffman could be faithfully reporting Oracle’s use was by excluding I-Flex’s numbers in his calculations. In fact, in FY07, when both of these interviews took place, I-Flex received 374 H-1Bs but applied for permanent residence for only 16 of its H-1B workers, or 4%. That’s a far cry from the 90% Hoffman claimed. And in 2007, I-Flex received more than three times as many H-1Bs as its parent, Oracle, which received 113.

<sup>8</sup> <http://www.flcdatcenter.com/CasePerm.aspx>

<sup>9</sup> For example, see my policy brief for immigration for the Agenda for Shared Prosperity (Hira 2007), and for a more detailed treatment of the offshore outsourcing phenomenon, see my book, *Outsourcing America* (AMACOM 2008).

<sup>10</sup> Even though Cognizant is based in the United States, its business model is the same as the India-based offshore outsourcing firms. Just one example of this is that Cognizant’s CEO Lakshmi Narayanan served as the Chairman of NASSCOM (the Indian industry association for offshore outsourcing) in 2007.

<sup>11</sup> IBM Form 10-K Annual Report, December 31, 2008, Exhibit 21.

<http://edgar.sec.gov/Archives/edgar/data/51143/000104746909001737/a2189817zex-21.htm>

<sup>12</sup> IBM Form 10-K Annual Report, December 31, 2008

<http://edgar.sec.gov/Archives/edgar/data/51143/000104746909001737/a2189817z10-k.htm>