International Students and Economic Development of Global Metropolitan Areas

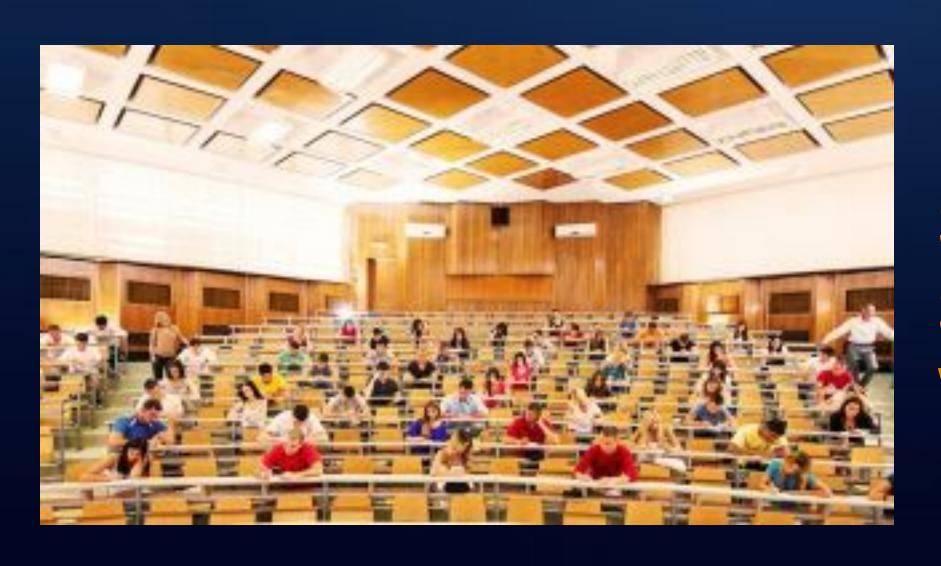


A skilled workforce provides the foundation for metropolitan areas to transition to the Next Economy



Outline

- 1. International Students Supply of Skilled Workforce
- 2. Demand for Skilled Workers
- 3. Challenges and Prospects for Immigration Reform

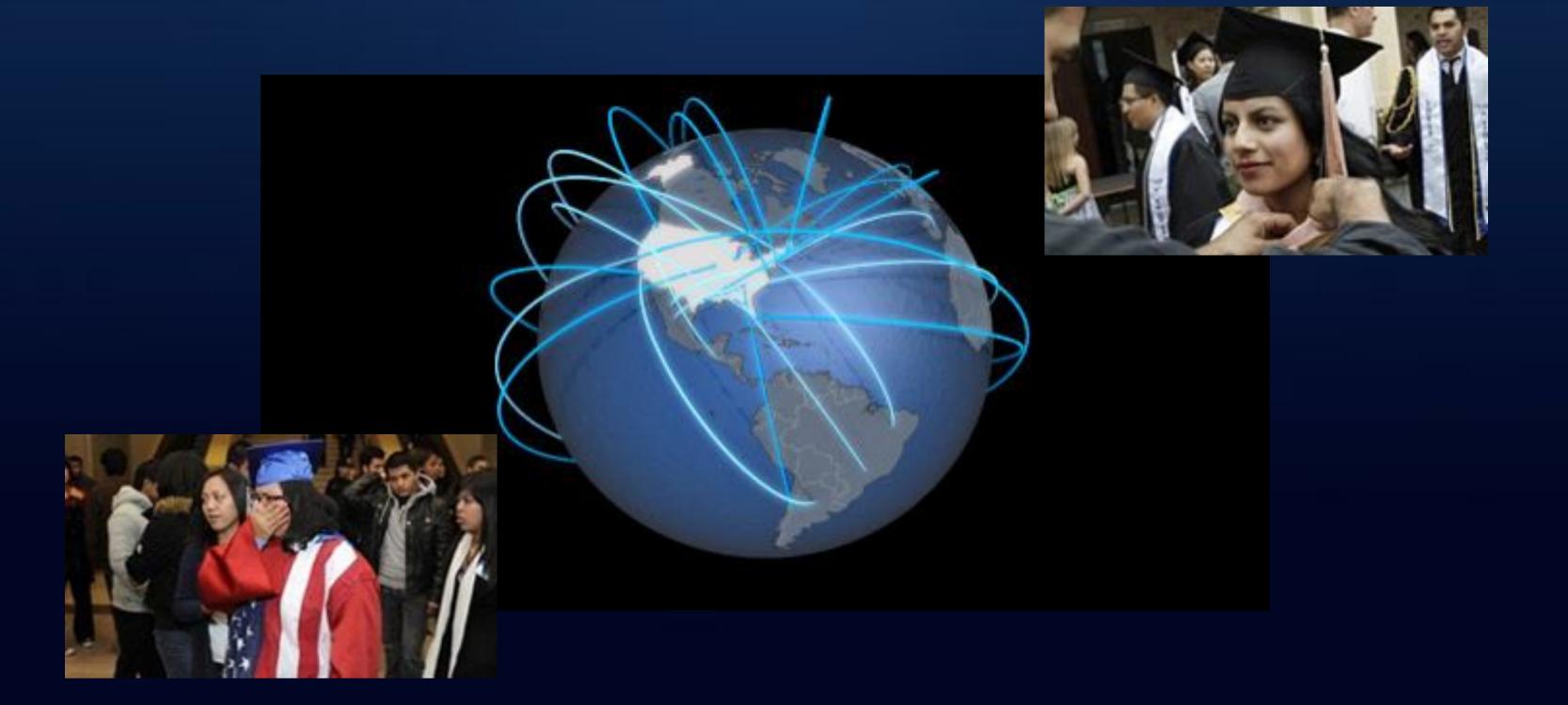


1. International Students Supply Skilled Workforce

Metros are home to foreign students



The U.S. is the global hub for higher education, receiving 21 percent of all students studying abroad









Forthcoming Brookings Report on Foreign Students

5+ million

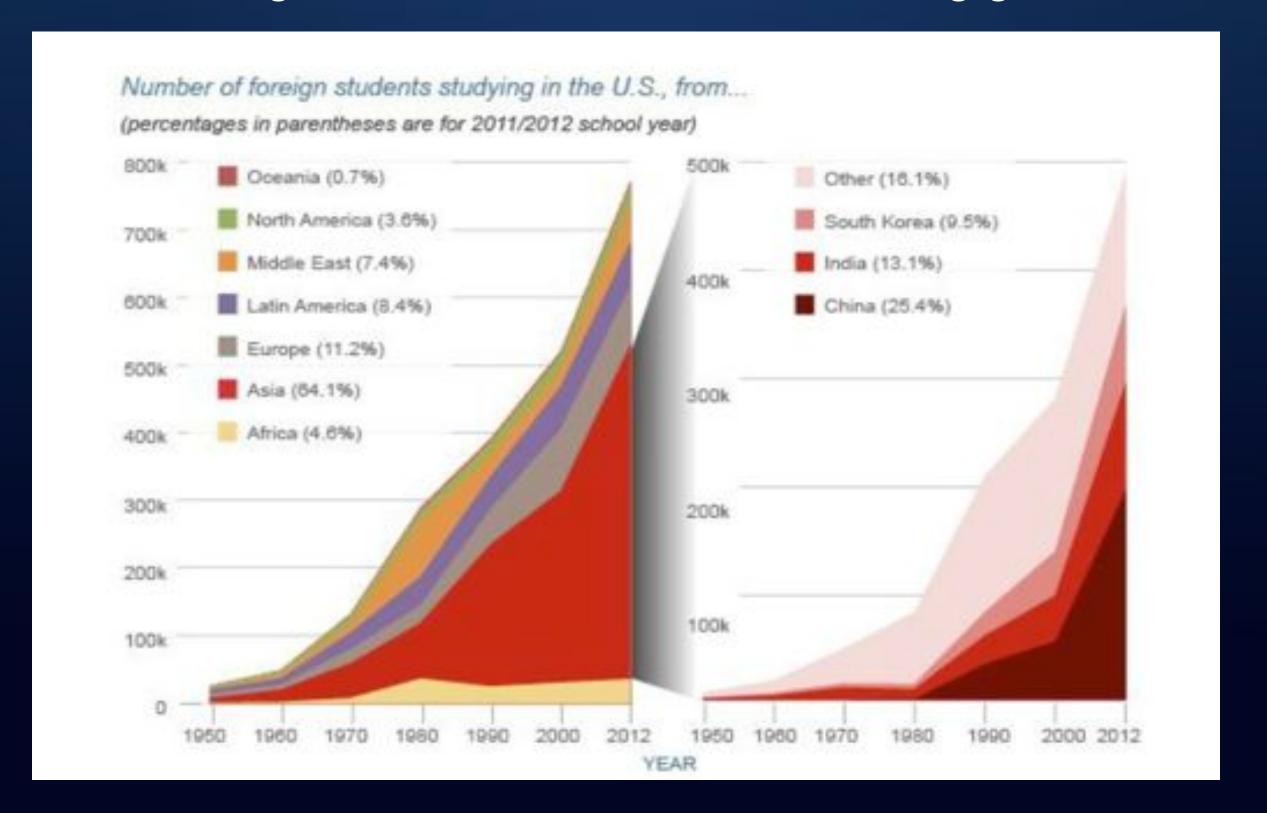
approvals for F-1 visas in 2001-2012

Three Types of Foreign Student Visas

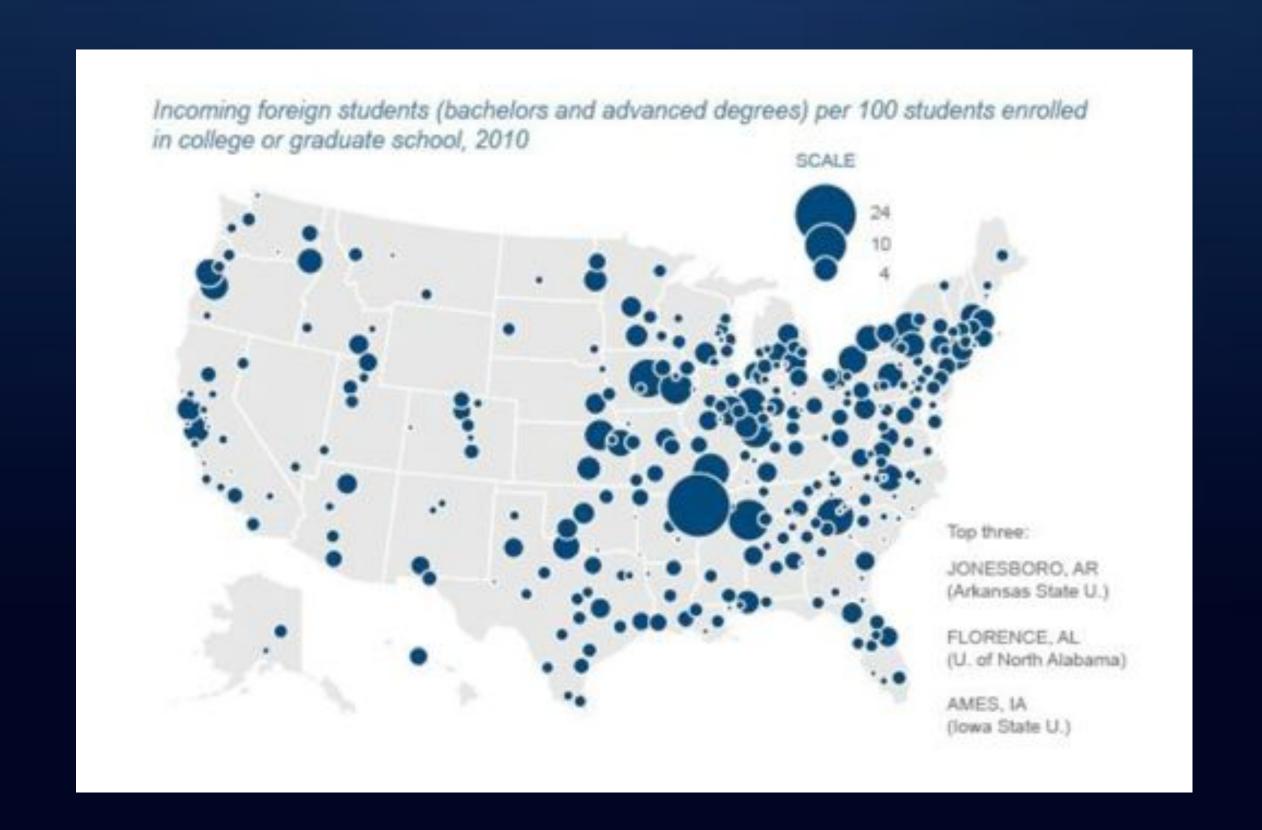


- 1. F-1 Visa: For full-time academic study; most common visa
- 2. J-1 Visa: For cultural exchange purposes, also known as the Fulbright Program
- 3. M-1 Visa: For non-academic vocational purposes only; least common visa

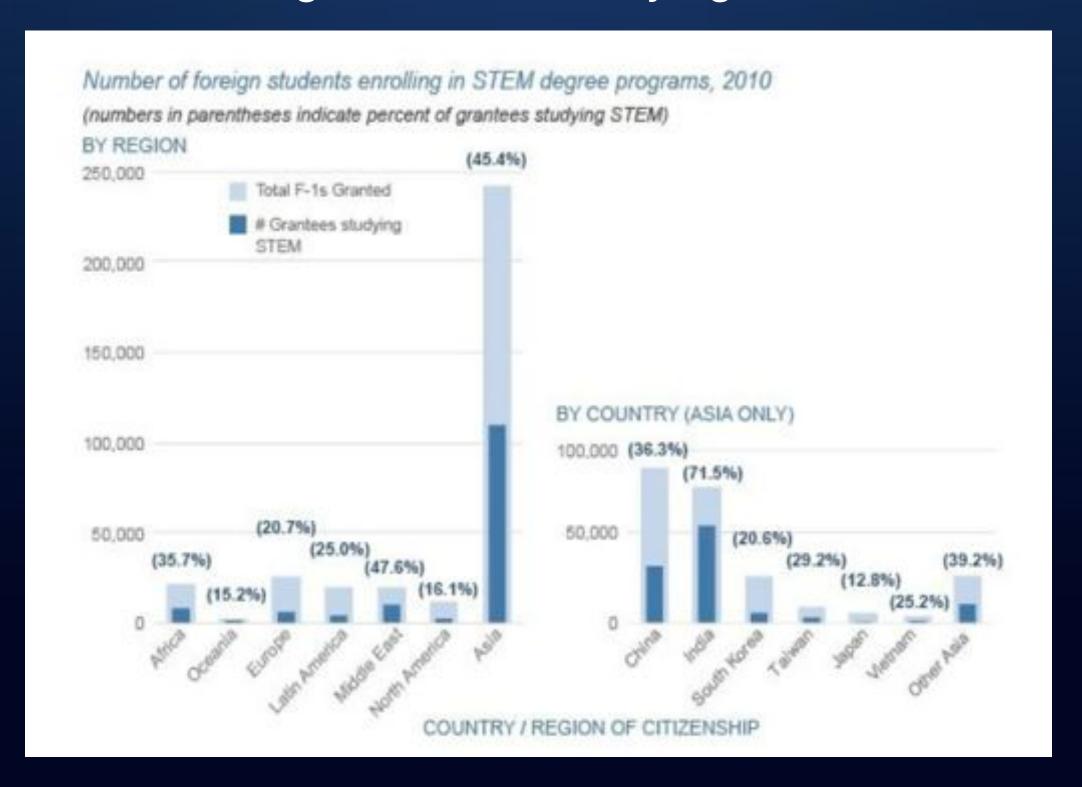
Foreign Students from Asia are driving growth



Smaller metros have the highest concentration of foreign students



Students from Asia comprise an overwhelming share of all foreign students studying STEM



B Metropolitan Policy Program

The Search for Skills: Demand for H-1B Immigrant Workers in U.S. Metropolitan Areas

Neil C. Ruiz, Jill H. Wilson, and Shuamai Choudhury

An analysis of the geography of H18 year requests -particularly in the metropolitan areas with the highest demand between 2001 and 2011 neverto that:

- M Demand for H-10 workers has fluctuated with economic and political cycles over the last decade and reflects a wide range of amployers' needs for high-skilled temporary workers. Employer requests have exceeded the number of visits issued every year except from 2001 is 2003 when the annual cap was temporarily raised from 65,000 to 195,000, Employers requesting the most H-58 visus are large companies subject to the cap specializing in informa-Son technology, computing, and electronics manufacturing. Science, technology, engineering. and mathematics (SPEM) occupations account for almost two shares of requests for in 6 work em; healthcare, Frience, business, and life sciences occupations are also in high demand. Over the last decade the federal government has distributed about \$1 billion from in-18 visa fees to fund programs to appress saids shortages in the U.S. worsforce.
- M One hundred and six metropolitan areas had at least 250 requests for 10-16 workers in the 2010-2011 period, accounting for 91 percent of all requests but only 67 percent of the national workforce. Considerable variation solids among these metro areas in the number of workers, requested and the natio of requests to the size of the total metro workforce. On overage, there were 3.3 requests for intits per 1,000 workers in these 106 matter areas, compared
- & Metropolitan areas vary by the number of employers using the H-18 program and the cap status of the employees. Demand in corporate metro areas (such as Columbus, in and Seattle, WKI comes predominantly from private employers subject to the annual size cap. while in research metro areas touch as Durham, NC and Ann Arbor, M1, the demand is soverby universities and other research institutions exempted from the cap. In mixed metro areas (such as Atlanta, GA and Trenton, N.J. a variety of employers are censur-ding temporary high-
- 8 in 92 of the 106 high demand metropolitan areas, STEM occupations accounted for more than half of all requests. Computer occupations were the most highly requested occupabox group it all but it metres of the 106 high-demand metros, where engineering heathcare practitioners, and postsecondary teachers were more requested. Marriquillar areas also vary on proxidetional concentration, ranging from 16 occupation groups requested in the Naw York metro area, to to groups requested in Biscomington, it.
- M so 18 wine feet designated for skills training and STEM education have not been propertionately distributed to metro areas requesting the highest number of H-15 workers. Metropolitan areas with a high persons for in 10 workers are only receiving \$3.00 or average per working age person in years or older of the technical skills training grants companed to \$15.25 for metros that have a lower cemand for IV this from 2009-2011, \$700e education funds are similarly distributed with the high tr-95 matrix receiving only \$100 per working age person Mi years or other companies to \$14.50 in the loss in 65 matrice.

The U.S. government should develop an independent standing commission on labor, and investigration removed from politics that can adjust the cup for HHB use applicants based on total employer shifts needs and segonal economic indicators. The federal government should else channel HTB vita feet to skills training in areas that are currently being fried by HTB workers at the metropolitan level.

"A global view of high-skilled labor complemented by metropolitan skills training will enable U.S. companies to obtain the workforce they need to keep America competitive now and in the future."

2. Demand for Foreign Skilled Workers

The H-1B Program connects US employers to high-skilled workers



H-1B Visa Program

Immigration Act of 1990



November 29, 1990

American Competitiveness and Workforce Improvement Act of 1998



October 21, 1998



H-1B Temporary Work Visas



Private Firms

Capped



Research, Non-Profit, Government Organizations *Uncapped*

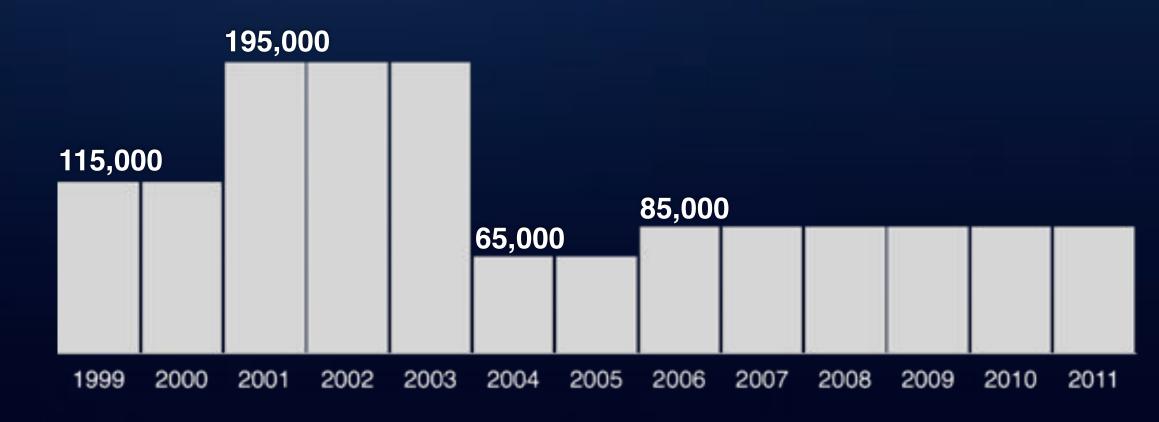
H-1B Temporary Work Visas



Private Firms

Capped





High-Demand Industries and Firms









H-1B Temporary Work Visas



Research, Non-Profit, Government Organizations *Uncapped*



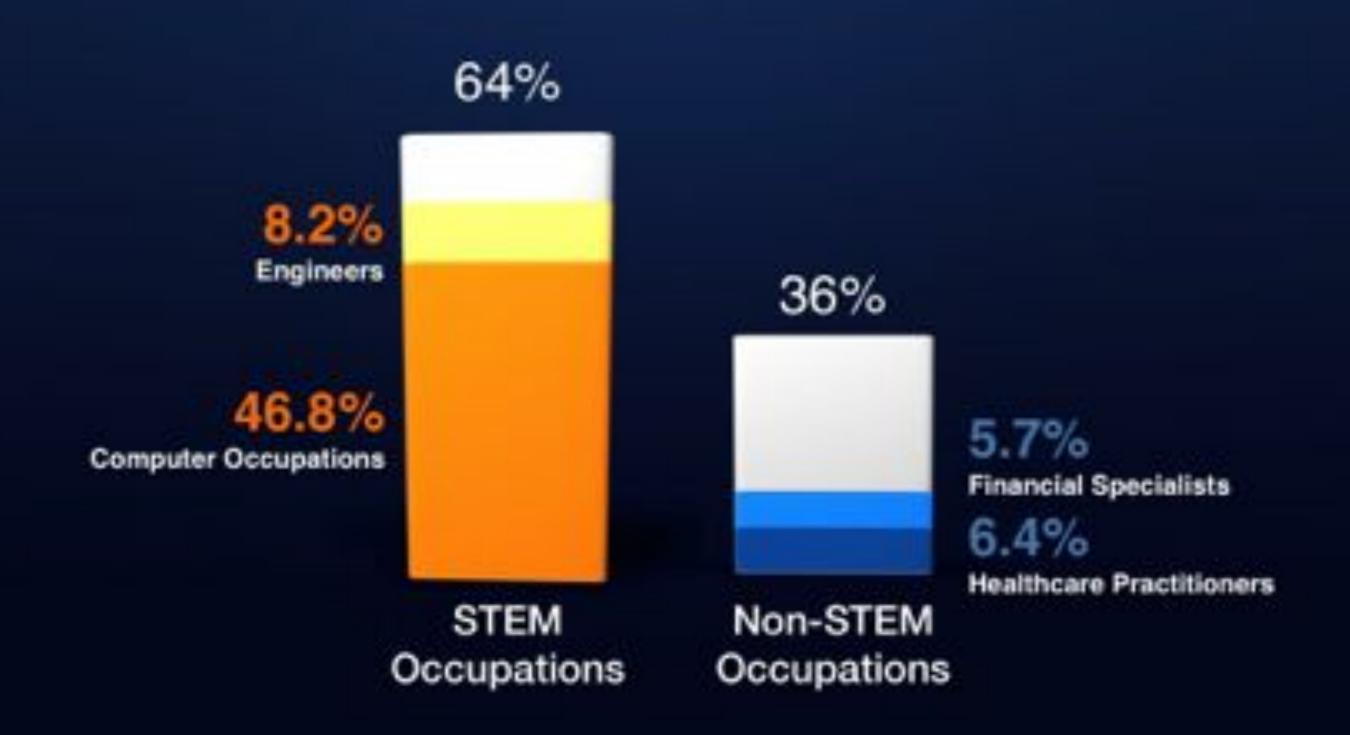
H-1B Temporary Work Visas







Occupations of H-1B Visa Requests



H-1B Cap Not Responsive to Economic Needs



Metros drive demand for H-1B workers



Metros Concentrate H-1B Requests



Metros With Greatest Number of H-1B Applications



Metros With Highest H-1B Intensity



Metros With Highest Share of STEM H-1B Requests



Metro Profiles



Metro Profile St. Louis, MO



Applications

2,263

H-1B visa requests

1.71

H-1B intensity requests per 1,000

workers

Top Employers Requesting H-1Bs

17%
Uncapped





Occupations

75% STEM Computer Occupations

Life Scientists

Health Diagnosing Practioners

Metro Profile Detroit, MI



Applications

4,653

H-1B visa requests

2.66
H-1B intensity

requests per 1,000 workers

Top Employers Requesting H-1Bs

6%
Uncapped





Occupations

66% STEM

Computer Occupations

Engineers

Metro Profile Pittsburgh, PA



Applications

2,370

H-1B visa requests

2.08

H-1B intensity requests per 1,000

workers

Top Employers Requesting H-1Bs

25%

Uncapped







Occupations

25% STEM

Computer Occupations

Health Practitioners

Engineers

Metro Profile Cleveland, OH



Applications

1,790

H-1B visa requests

H-1B intensity requests per 1,000

Top Employers Requesting H-1Bs

27%

Uncapped



workers



PROGRESSIVE

Occupations

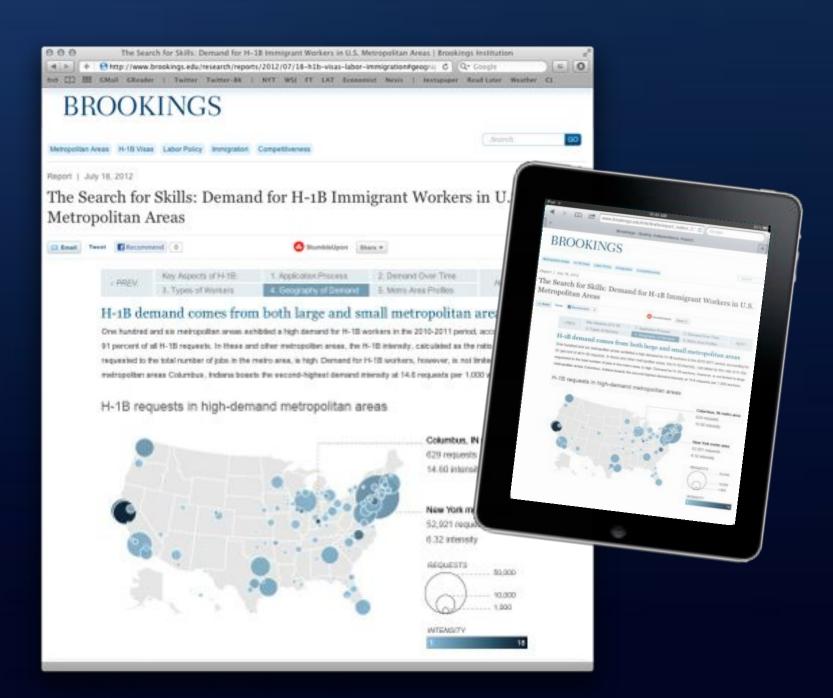
60% STEM Computer Occupations Health Practitioners

Engineers

Metro H-1B Data Profiles

106 High-Demand Metros





www.brookings.edu/metro/h1b



3. Challenges and Prospects for Reform

Current US Visa System







F-1 visas approved in 2010

668,513

F-1s enrolled in advanced degree programs



188,281

F-1s enrolled in advanced degree programs AND studying a STEM field



96,162

Of the 668,513 F-1 visas in 2010, 188,281 (28.2%) were enrolled in advanced degree programs, of whom 96,162 (14.4%) were studying a STEM field.

Under proposals to give green cards to foreign STEM advanced degree holders these individuals would have faster access to a green card upon graduating with a job offer. H-1b visas approved in 2010



76,627

H-1bs transferring from F-1 status



26,502

H-1bs transferring from F-1 status who had a graduate degree



Of the 76,627 new H-1B visas approved in 2010, 26,502 (34.6%) were transferring from F-1 visa status, of whom 19,922 (26.0%) had a graduate degree.

They can then apply for permanent status, if sponsored by their employer.

Congress Agrees on High-Skilled Immigration Reform





Regional Visas?









International Students and Economic Development of Global Metropolitan Areas

