MOST WANTED GLOBAL MIGRANTS

BBC WORLD SERVICE VISUAL JOURNALISM

Camilla Costa Roberto Belo-Rovella

Migration Statistics User Forum

17 September 2013



The project in summary

- Global audiences are keen on migration stories
- Original angle: highly skilled migrants
- Innovative approach: data + visual
- 1 journalist (3 months), 1 designer, 1 developer
- Published in 12 languages, Easter 2013
- Just in English got 1 million unique browsers





Global migrants: Which are the most wanted professions?

Interactive guide Who benefits? | Case studies | How it's worked out

Around the world, there are a number of professions in high demand from the pool of 200 million international migrants.

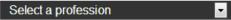
The need for nurses and doctors is perhaps the best known, but there are also countries short of chefs, for example Belgium and the UK.

And psychologists looking for a change of scene could try the Nordic countries, where they are in demand.

Use the interactive guide below to explore the top 20 most wanted professionals and the countries that want their skills. You can also read **case studies** of professionals who have made the move to another country.



The most wanted professions?
Who benefits and why?
How it's worked out



Click on the countries on the right to reveal more information about the profession and the selected country.

NURSES NURSES Nurses have been in demand in several countries* for the past 10 years. Nurses in Australia MECHANICAL ENGINEERS The demand for nurses in Australia includes mental health and surgical nurses. The salary starts at AUS\$55,617 (US\$57,876) per year.



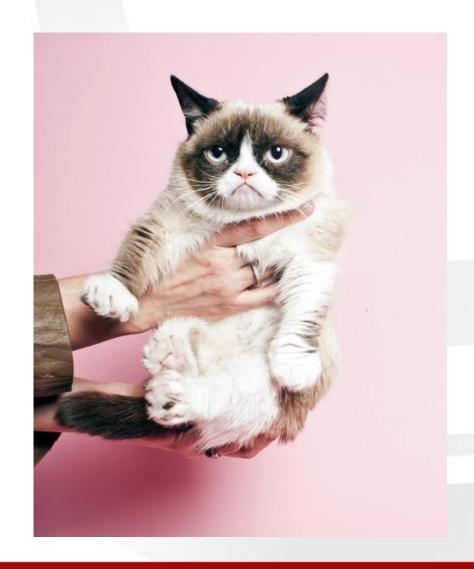
It started with a big idea

To show which highly skilled professionals have been travelling where to work on what.

But as many big ideas, it had one small problem...



There was no such information.



Problems:

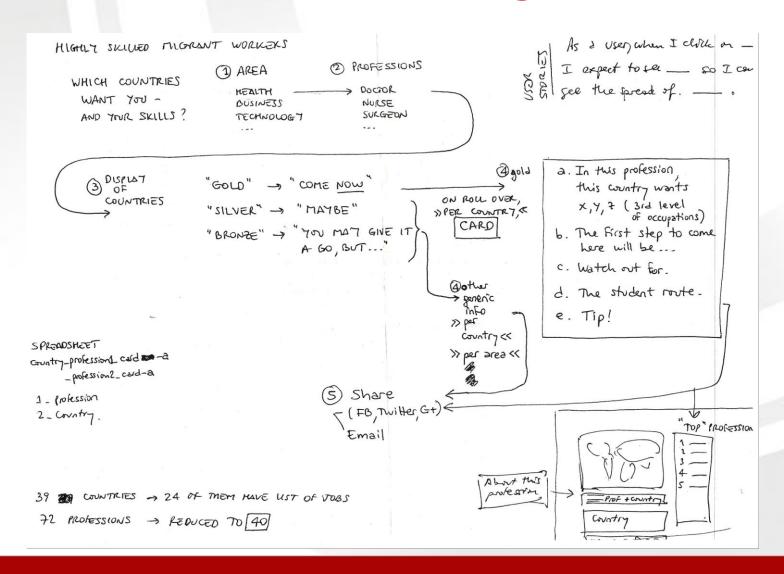
- Most countries do not discriminate the highly skilled immigrants in the datasets they make available to the public, when they do;
- There is also little or no available data about where their emigrating highly skilled professionals are going.

Solution:

- 1. Work with the tools available to provide valuable information;
- 2. Back to the drawing board...



...with another big idea.





Step 1: Keeping it simple

Who are the professionals that the world wants?

- Official shortage occupation lists
- Official data compiled by ministries
- Market research by third parties used by governments as trusted sources
- Official estimates



Step 2: Choosing the countries

- Why the OECD?
- Why the BRICS?
- Why Singapore?

- 1. Timeframe
- 2. Comprehensiveness/Representation
- 3. Availability of information



Step 3: Finding the Data

- We managed to find official information for 25 out of 34 OECD countries. Most of them already use shortage lists which are available in their official immigration websites.
- The EURES portal helped providing official information for some european countries in which the bureaucracy proved to be an obstacle.



Not all (in fact nothing) is that simple...

- Countries use different methods of compiling and processing the information;
- Lack of comprehensive information (the case of Estonia);
- Difference in the classification of occupations.





Skill Shortage List Australia

2011-12

This list reflects research undertaken by the Department of Education, Employment and Workplace Relations in 2011-12. Some occupations included here were assessed for Australia as a whole, for others research was done state by state. This list combines all results to provide information about shortages which are widespread enough to be considered national. Details about the methodology used in this research are available at www.deewr.gov.au/skillshortages. Occupational coverage in the research program has changed markedly over time. Lack of a rating for an occupation does not necessarily imply 'no shortage', it may be that the occupation was not assessed. It is also important to note that labour markets can change quickly and the assessments made here reflect the labour market at the date listed.

ANZSCO	Occupation	Rating	Date Assessed	Comment
1. MANAC	ERS			ļ.
1331-11	Construction Project Manager	D	June 2012	Employers experience difficulty recruiting Construction Project Managers for mining and resource projects.
1332-11	Engineering Manager	S	June 2012	
1335-13	Production Manager (Mining)	S	March 2012	
1341-11	Child Care Centre Manager	S	November 2011	
2. PROFES	SSIONALS	**	10	
23. Design,	Engineering, Science and Trans	port Profe	ssionals	
2322-12	Surveyor	S	May 2012	
2331-11	Chemical Engineer	D	April 2012	Recruitment difficulty is for senior Chemical Engineers in specialist areas including water treatment and the oil and gas sector.
2332- 11,14,15	Civil Engineering Professionals	S	June 2012	- 1
2332-13	Quantity Surveyor	S	June 2012	
2333-11	Electrical Engineer	S	June 2012	
2335-12	Mechanical Engineer	S	June 2012	
2336-11	Mining Engineer (excluding Petroleum)	S	February 2012	
2336-12	Petroleum Engineer	S	February 2012	
2341-11, 12	Agricultural Consultant / Scientist	S	December 2011	

Skill Shortage List, Australia

Department of Education, Employment and Workplace Relations

Page 1 of 4

List reflects research undertaken to 30 June 2012 (Published 31 August 2012)



SUOMEN AMMATTIBAROMETRI, III / 2012

PULAA

TASAPAINOSSA

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Shortage occupations list 2013

1. Milling machinists

Milling machinist (metal processing), CHC milling machinist, die milling machinist

· 2. Metal turners

Bar turner, boring mill operator, turner, master turner, thread cutter, carousel turner, revolver turner, point turner, die turner, CNC skilled worker, machining technician, CNC turner, metalwork technician – machining technology

3. Technicians with a higher level of training (engineer) mor mechanical engineering

Installation engineer – mechanical engineering (Engineer), motor vehicle construction engineer (Engineer), mechanical engineering technician (Engineer), mechanical design engineer (Engineer), air conditioning system engineer (Engineer), sanitary engineer (Engineer), parts design engineer (Engineer), tool design engineer (Engineer), mechatronics engineer (Engineer), building services engineer (heating, ventilation, sanitary) (Engineer), quality assurance engineer (Engineer), CAD design engineer (Engineer), precision engineer, systems engineer (Engineer), drive technology engineer (Engineer), construction machinery engineer (Engineer), CAM engineer (Engineer), production engineer (Engineer), weapons engineer (Engineer), ventilation engineer (Engineer), technical college graduate in mechanical engineering, automation engineer (Engineer), CAD/CAM programmer (Engineer)

4. Roofers

Roofer, foreman/forewoman (roofer), master roofer



Dear Mrs Costa,

There is no official skills shortage list in the Czech Republic, however representatives of business and industry together with HR agencies claim there is a shortage of highly skilled technicians in various branches of industry including civil engineering and manufacturing. The demand for highly qualified IT specialists (analyst and programmers) is also significant.

To boost the work immigration of skilled professionals the Czech government introduced in 2009 a system of green and blue (EU) cards for the citizens of 12 priority non-EU countries. In 2011-2012 the statistics of both the Czech Ministry of Labour and the Ministry of Interior showed that in comparison with the years 2007-2008 there was a decline in work motivated immigration of skilled professionals from the non-EU countries to the Czech Republic while the number of EU citizens seeking jobs in the Czech republic increased.

Sincerely

David Steinke

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BRICS, a special chapter

- South Africa, Russia and the Chinese SARs have specific policies for highly skilled migrant atraction, but very little open data.
- Lack of any data was also the main challenge in the cases of India, China and Brazil.

Solution? Compromise

Turn to official reports and trusted sources.





Report on Manpower Projection to 2018

Government of The Hong Kong Special Administrative Region

April 2012



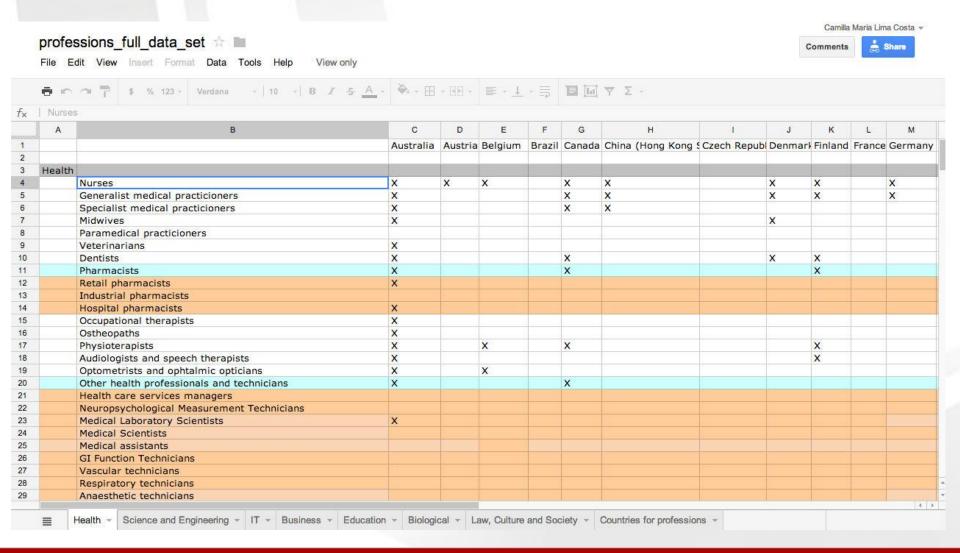
Twelfth Five Year Plan 2012-17

Planning Commission Government of India





Step 4: Building the list





Camilla Maria Lima Costa 🕶

Comments

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Comments

Camilla Maria Lima Costa w

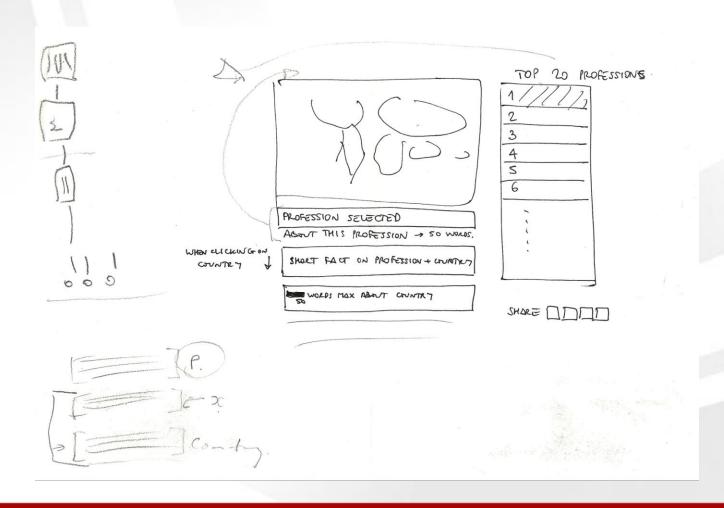
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	A	В	С	D	E	F	
1		Countries that claim they want those professions					
3	Nurses	Australia, Austria, Belgium, Canada, China (Hong Kong SAR), Denmark, Finland, Germany, Hungary, India, Ireland, New Zealand, Norway, Singapore, Slovakia, Slovenia, Sweden, Switzerland, UK, United States (20)					
4	Mechanical engineers	Australia, Austria, Brazil, China (Hong Kong SAR), Denmark, France, Germany, Hungary, India, New Zealand, Norway, Singapore, Slovenia, South Africa, Spain, Sweden, Switzerlan, UK (18)					
5	Doctors	Australia, Canada, China (Hong Kong SAR), Denmark, Finland, Germany, Hungary, India, Ireland, New Zealand, Norway, Portugal, Singapore, Slovakia, Slovenia, Sweden, Switzerland, UK (18)					
6	Electrical engineering professionals	Australia, Austria, Brazil, Denmark, Germany, Hungary, Ireland, New Zealand, Norway, Poland, Singapore, Slovakia, Slovenia, South Africa, Sweden, Switzerland, UK (18)					
7	IT developers and programmers	Australia, Austria, Belgium, Brazil, Czech Republic, Denmark, Germany, Ireland, Luxembourg, New Zealand, Norway, Poland, Russia, Singapore, Slovakia, Slovenia, Sweden, UK (18)					
8	IT engineers and analysts	Australia, Austria, Belgium, Brazil, Czech Republic, Denmark, France, Germany, Ireland, Luxembourg, New Zealand, Norway, Portugal, Russia, Singapore, Slovakia, Sweden, UK (18)					
		Australia, Austria, Belgium, Brazil, China (Hong					

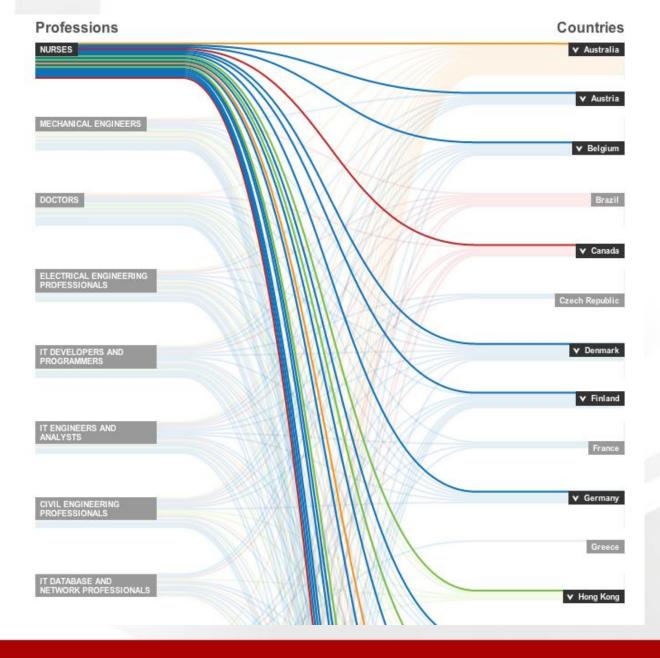


Step 5: Designing

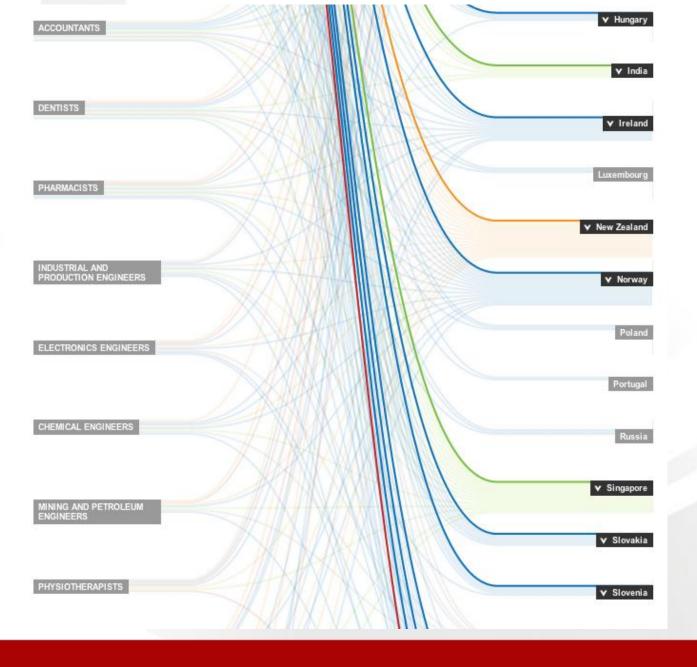
From here...



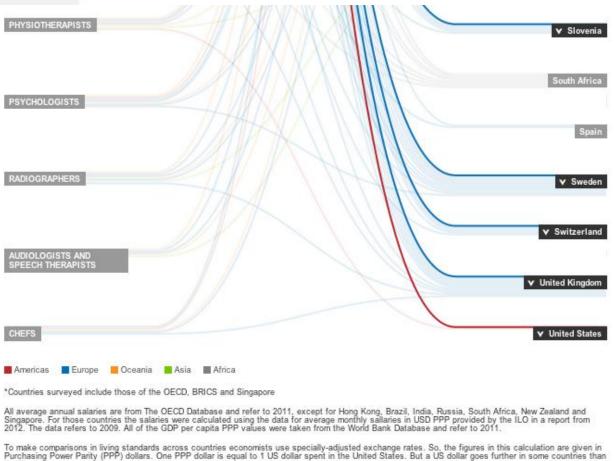
...to there











Download the full data set

Methodology

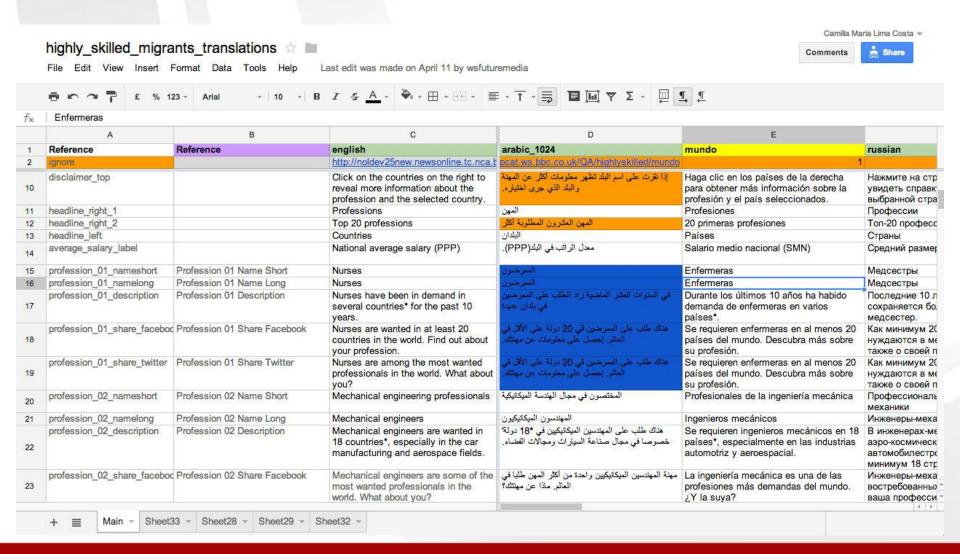
Research and Production: Camilla Costa; Design: Nour Saab; Development: Martyn Rees

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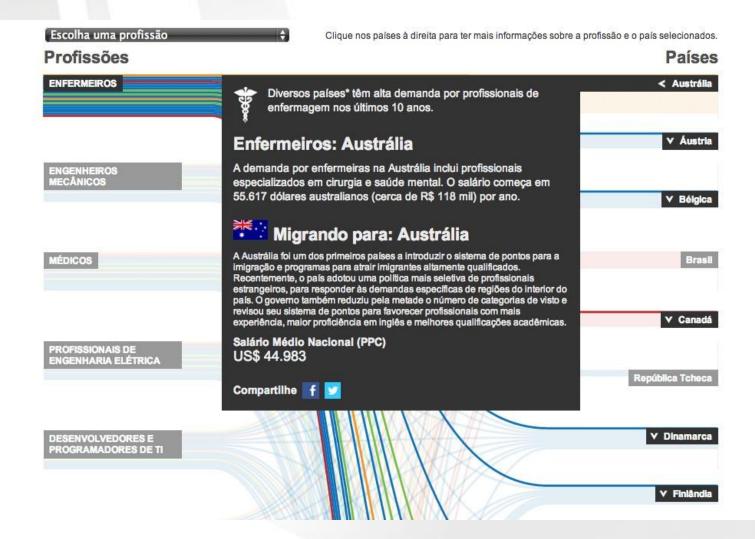


At last, the language versions...





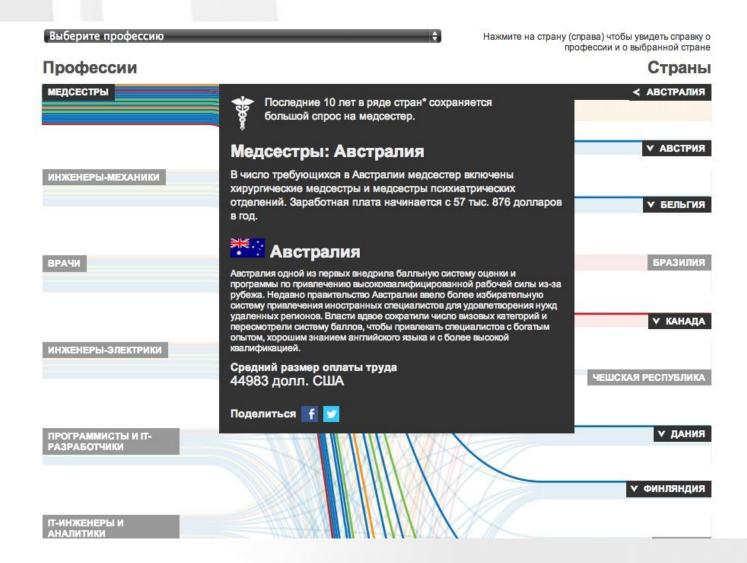
A lot of them!





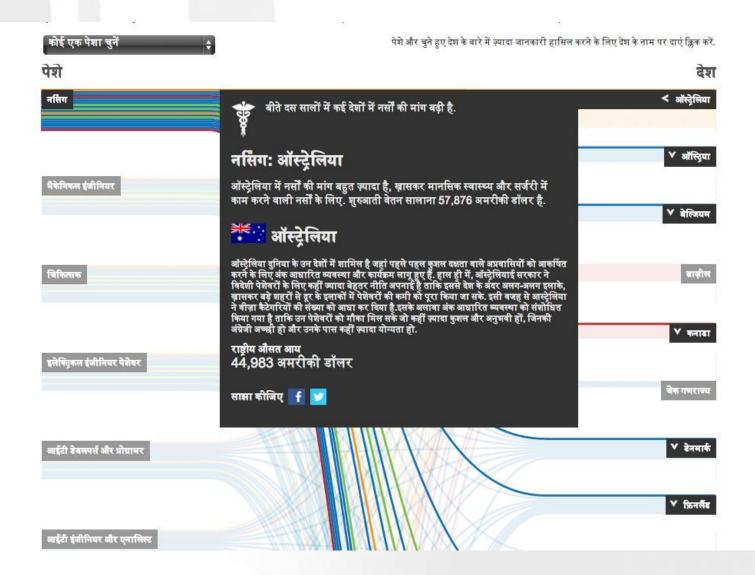












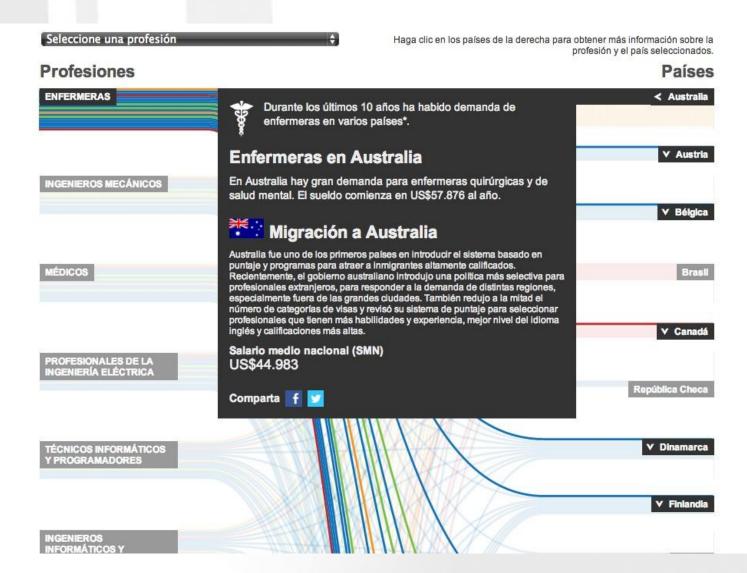






နိုင်ငံတ**ေ့**ုက အလုပ်အကိုင်အခြ**ဲအေန**ေကေိ**ု သိနိုင်ဖ**ိ**ု**့ ညာဖက**်က နိုင်ငံမျ**ားက**ိ**ု နိုပ်ပင်။ အလုပ်အကိုင်တခဝုကဝိဝု ရွေဝးပဝါ အလုပ်အကိုင**်မ**ျာ**း** နိုင်ငံမ**ျာ**း သူနာပင်္ < ဩစတြေေးလျ ပြီးခဲ္တာဲ္ ၁၀ နှစ်အတွင္်င္း နိုင်ငံအမျတင္းမင္နတ္ သူနာပြင္နတ္မွင္ေ လိုအပ်နေခေဝဲ္။ သူနာပ**ြ**: ဩစတြေေးလ**ျ** 🗸 ဩစတီးယတ္ႏ စက်မ**ှ**ု အင်္ဂျင်န**ီယ**ာ သြစတြေးလျမ**ှ**တ လိုနေတေ**ဲ**့ သူနာပြုတွေ့အထဝဲမ**ှ**တ စိတ်ကျန်းမတရဝငေး စောင့်ရှောက်သဝူတဝွဝနေဝဲဝ ခွဲစိတ်ခန**်**းအက**ူ** တွေပါ့ဝင်ပငါ့တယ**်**။ လစာကတေတေ**့ US\$** ၅၇၈၇၆ က စ 🗸 ဘယ်လ်ဂျ**ီ**ယငံ တင်ပါတယ**်**။ 🚟 ဩစတြ**ြေးလ**ျ သိ**ု**့ ပြောင်းရွှေအလ**ုပ**်လ**ုပ**် ဘရာဇီး ဆရာ၀နင် ဩစတြေမြးလျဟတ စွမ်းရည**်** ပြည**်**့ နိုင်ငံခြဲငြာဝးသတဝး လုပ်သာဝးတဝွင V ကနေ**ာ**ါ အများအပဝြာဝး ရနိုင်ရေးအတဝွကင် အမှတ်ပေးစနစင်နဝဲဝ စီမံကိန်းတဝွငကေဝိဝု စကျင့်သုဝံငးတဝဲ့ နိုင်ငင်တခဂု ဖြစ်ပါတယင်။ ဩစတြခြင်းလဂျ နိုင်ငင်ရဝဲ့ လျှပ်စစ**် အင်္ဂျင်န**ီယဘ နေရာအတော်မျတဝးမဝျတဝး အထူးသဖြင့်ဝ်ဝ အဓိက မြို့ကြီဝးတဝွဝရေဝဲဝ ချက**် သမ္မတနိုင**်ငံ ပြင်ပမ**ှ**တ နိုင်ငံခြဲတြင်းသတင်း သက်မွေးဝမ်းက**ြ**တေင**်**ဝး ပညာရှင်တဝွင လိုအပ်နေမှာ်ဂုက်ဝိဂု ဖြည်ဆည်းပေးနိုင**်ရ**ေဝေးအတဝွကင် ဩစတြပြောလျှ အစို**းရက ပိုစိစစ**င်တဝဲ**့** ပေါ် လစ**ီ**ကဝိ**ု** မကြာသေးခငင်က IT ပညာရှင**် နှင**်္ 🗸 ဒိန်းမတင် စကျင့်သုံးခဲ့ဝပ္ဝါတယင်။ အဲဒီ ပေါ် လစ္ပီအရ ဗီဇတ စနစင် အမျိုးအစားတွ္ပကေဝိဝ္ တ၀ကဝ် လျှော့ချလိဝုကဝ်ပဝြီဝး စွမ်းရညဝ်နဝဲဝ ပရိုဂရမ်မာမျှဘ**း** အတွေအကင်္ဂြငံ ပိုရှိသို့၊ အင်္ဂလိပ်စာပိုကတေငင်္ဝးသဝူ၊ အရည်အချင်းပိုမြင်္သသူတဝွငကေိဝု ရွေးတဝဲင္ အမှတ်ပဝငေး စနစင် ကိဝု 🗸 ဖင်လနင် ပြင်ဆင် ကျင့်သုံးခဲ့္ပပါတယင်။











Chon một nghề Nhấn vào tên các nước ở bên phải để biết thêm thông tin về nghề nghiệp và nước lua chon. Nghệ nghiệp Quốc gia < Úc Trong 10 năm qua, nghề y tá được yêu cầu nhiều nhất ở một số quốc gia Y tá ở Úc V Áo Nhu cầu về y tá ở Úc gồm cả lĩnh vực sức khỏe tâm thần và y tá trợ KÝ SƯ CƠ KHÍ phẫu. Mức lương khởi điểm khoảng 57.876 đô la Mỹ. Y Bi Di cư tới Úc Úc là một trong các nước đầu tiên đưa ra hệ thống tính điểm và chương trình thu hút dân nhập cư trình độ cao. Gần đây, chính phủ lúc công bố chính sách mới lựa chọn kỹ hơn các chuyên gia nước ngoài, nhằm đảm bảo nhu cầu ở các vùng khác nhau, đặc biệt là ở ngoài các thành phố lớn. Úc cũng đã giảm tới một nửa các hạng mục thị thực và xem lại hệ thống tính điểm để lựa chọn các chuyên Brazii BÁC SÝ viên có kỹ thuật và kinh nghiệm hơn, nói tiếng Anh tốt hơn và bằng cấp cũng cao hon. V Canada Mức lương trung bình 44.983 đô la Mỹ CHUYÊN GIA KŶ THUẬT ĐIỆN Chia sè 🥤 💟 Cộng hòa Séc V Đan Mạch PHÁT TRIỂN CÔNG NGHỆ THÔNG TIN VÀ LẬP TRÌNH V Phần Lan KỸ SỰ CÔNG NGHỆ THÔNG TIN VÀ NHÀ PHÂN TÍCH



After all is said and done...

 How could it have been better? What more did we need?

- 1. Time
- 2. Trusted datasets
- 3. Automatic feeds



Feedback

How can statisticians benefit from our work?
And how can they contribute to it?

- 1. Open Data, consistently organised
- 2. 'Out of the Box' data analysis and data processing



THANK YOU!

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