



Academic Initiative, System z

What Is It and Why Should Business Care?

SHARE Anaheim

Session 11872 - Wednesday, August 8 - 1:30 PM - 2:30 PM

Kathy Pfeiffer (pfeiff@us.ibm.com), Don Resnik (resnik@us.ibm.com)



Will you carry the message?
“Mainframe skills are ready for hire”



Schools are teaching the
mainframe.

It's not ...



The System z Academic Initiative is helping fill the skills pipeline!



Lake Brantley AP Computer Science 2011-2012



Mainframe contests around the world



Concurso
**IBM Master
The Mainframe**
Sudamérica 2011

33 countries
7 years
45,000+ students



NO EXPERIENCE NECESSARY.
*JUST A DESIRE TO
WIN GREAT PRIZES!*



王牌在手，Z克群雄
IBM Taiwan 2011 zMaster Contest
IBM大型主機校園競賽



**ไม่ต้องมีประสบการณ์
ก็ร่วมสนุกกับ IBM ได้**
คุณไม่จำเป็นต้องมีไอเอ็มทีหรือสายสัมพันธ์
พร้อมของรางวัลอีกมากมาย
และคุณยังมีโอกาสฝึกงาน
หรือเข้าทำงานกับไอเอ็มที



NO EXPERIENCE NECESSARY!
JUST A DESIRE TO WIN GREAT PRIZES!



MASTER THE MAINFRAME
IBM için Master the Mainframe'ini arıyor



第一次接觸 Z 就上手
IBM 大型主機 校園競賽
IBM Taiwan 2009 zMaster Contest



**Concurso de Mainframe
para estudantes do Brasil**
É sua chance, você pode ser contratado!
Concorra também a Notebooks,
Video-games, MP3 players e Pen-Drives!

How to Introduce Enterprise Thinking in the Curriculum

Susan and
David Dischiave
Syracuse University
School of Information Studies

"The original iSchool"
June 13, 2012



Global Enterprise Technology

Collaboration Highlights

- 2006 - Joined the IBM Academic Initiative
- 2007 - Partnered with JP Morgan Chase
- 30 new courses developed (or modified)
- 6 new courses to be developed this summer
- 11 new academic programs
- Over 1,000 students have enrolled in GET classes

Introduction to Database Management: DB2

Enterprise Technologies: TSO, ISPF, RDz, JCL, z/OS, REXX, CLISTS, Virtualization, Security, Performance, Sysplex, security, storage management, Transaction Processing, capacity planning, backup/recovery, data center management

Clients are connected to schools where we invest our time and energy (1 of 3)

School	Clients Connected	Comments
Syracuse University, NY	JPMC is principle investor and influencer; many companies recruiting here	Global Enterprise Technology Minor, Loaner , Large Univ with high student enrollment, Case Study , press proof point
University of Arkansas	Walmart, Tyson Foods, Dillards, JP Hunt, DataTronics, Baldor, Conoico Phillips	Walton School of Business, Loaner , SAP on Linux on z, Case Study
Marist College, NY	IBM, JPMorgan, Goldman Sachs, others	Hundreds of clients using online z education, Loaner & Hub
Illinois State University	John Deere, Caterpillar, Country Financial, Citigroup, Schwab,	Concentration in mainframe, Loaner
North Carolina A&T University	Fidelity, CA, SAS, BOA, Lincoln Financial, BB&T	Four course track, Vision, Loaner , Evangelist
West Texas A&M University	Fidelity, CA, IBM	Very strong CS program, winners in mainframe contest
Widener University	JPMC, Vanguard	Seven year commitment to teaching z in CS, good placement
RIT, NY	M&T Bank, Moog, National Fuel and Gas	Growing program with high quality IT students and education
Northern Illinois University	IBM, BMC, CA, Northern Trust	Long time mainframe education, well known at SHARE
DeVry University	Coca Cola Enterprises, Genuine Parts Company, Wellington-Royce	Multiple US locations teaching z technology to teach IT skills

Clients are connected to schools where we invest our time and energy (2 of 3)

School	Clients Connected	Comments
University of South Carolina	IBM, BCBS	Association with BCBS and IT-ology, Loaner
University of North Texas	Fidelity, Pepsico, Home Depot, TI, JCPenney, CA, IBM	Transitioning from all Microsoft to IBM mainframe in the business college.
Columbus State U, GA	NSA, Total Systems, Coke	Strong CS program (CICS, Assembler, COBOL, DB2, Combined College of Business and TSYS School of CS
Fairmont State University, WV	IRS, FBI, BPD, DTCC, BNY Mellon	Certificate Program, full leadership support
Robert Morris University, PA	PNC Bank, BNY Mellon, Highmark, Operating Engineers	Four course track, 15-credit graduate and undergraduate certificate programs
Redlands University, CA	State and counties of CA	1st Four course certificate program on west coast
Eastern Illinois University	Metavante, Archer Daniels Midland – ADM, State Farm, Caterpillar, Anixter,	Strong student placement in COBOL

Clients are connected to schools where we invest our time and energy (3 of 3)

School

Clients Connected

Comments

Cegep de Thetford,
Canada

Desjardins Technology Group,
mix of government agencies,
insurance and finance

[Case Study](#)

“One hundred percent of our z/OS and COBOL students receive job offers,”

Karlsruhe Institute,
Germany

IBM and major German
companies such as Daimler
and BMW

[Case Study](#), [Loaner](#),

Both are committed to expanding the reach of System z education in Germany

University of Leipzig,
Germany

IBM and major German
companies such as Daimler
and BMW

[Case Study](#), Long time evangelist for z

Letterkenny Institute,
Ireland

Allstate Insurance and
Pramerica, a division of
Prudential

[Case Study](#)

Close collaboration with Allstate’s Louise McGee.

Tongji University,
China

IBM, Morgan Stanley

[Case Study](#)

Hosting the China z User Group (CDUG)

John Moores University, UK

Barclays Bank

Strong move toward System z

Vellore Institute of
Technology, India

TCS, CTS, Wipro, IBM

First significant z education program in India
COE in mainframe education

UNISUL, Brazil

Customer

Purchased a mainframe, to be the largest
online education program in Brazil

University of Ballarat,
Australia

IBM

In two to three years, they expect to have up
to 8 specialised mainframe subjects available
to their students

Oh, but there isn't a school next to my business teaching the mainframe...

To: My favorite distinguished educators,

I frequently discuss with IBM clients how and where they can get mainframe skills. I would really appreciate your perspective on the following:

Mainframe education is not common in schools in some states.

A client wants to know if it's worth their time trying to recruit students from schools teaching the mainframe in other states.

I know there are many variables: salary, location, type of job, company... but if we assume a competitive salary (\$60k starting), Systems Programmer job with a very good career path (future potential of \$100k +), strong company with good benefits, in a metropolitan area.

What do you think is the percentage of graduating students that would seriously consider relocating for the job I described.

Note to professors on 12/1/2011

Will students relocate for mainframe jobs?

(Rochester Institute of Technology, NY)

RIT students come from all 50 states and 100+ countries. They are more than used to travelling all over the place to secure co-op and full-time positions, so your scenario would bother maybe 15% or so, with the 85% willing to relocate.

I know of 6 students that have moved as far away as Texas to work for a mainframe position due to them taking my seminar course. My students are overwhelmingly enthusiastic and supportive of my efforts to bring mainframes back into the curriculum. I just showed my incoming computer platform fundamentals class this morning TSO login to the mainframe as I was explaining different platforms. They were astounded!

Larry Hill, Associate Professor
Networking, Security and Systems Administration Department
Golisano College of Computing and Information Sciences
Rochester Institute of Technology, Rochester, NY 14623-5603
585-475-7064

Will students relocate for mainframe jobs?

(Widener University PA)

Most of Widener students are willing to relocate with a competitive salary and future potential. As you may know, several employers (all of IBM clients), including JP Morgan Chase and Vanguard, come to the Computer Science Department at Widener every year to introduce available jobs. Last month, we had two presentations from Aetna Health Care and PNC Bank. We built a relation with them last Summer.

We just received funding from the State government to build a new Computer Science building. So, we can expand the large scale computer program to meet the needs of mainframe skills.

Suk-Chung Yoon, Chair of Computer Science Department
Widener University, tel: 610-499-4013, syoon@mail.widener.edu

Will students relocate for mainframe jobs?

(University of MD Eastern Shore, Fairmont University, WV)

As you know, I am very up front with my students about this new global marketplace economy and the need to be flexible . . . i.e., having no geographical preferences . . . and given the response I have been receiving at both UMES and Fairmont --- the students are very open and willing to make a move for long range career opportunity and job stability.

Therefore, my students are ready to go!

Let's proceed with the clients, accordingly.

John R. Thompson
Mobile Collaborative Education Consulting (MCEC)
San Jose, California
(408) 420.3632 (Mobile)

Will students relocate for mainframe jobs?

(North Carolina A&T University)

I can state unequivocally that the overwhelming majority of our students (90+%) are willing to go anywhere at any time if the opportunity is there.

I make that agreement with them before they even get started. If they want the opportunity, they have to be willing to relocate. Most are.

It's about hunger. I don't know what the issues are at other schools. It's not an issue for us. We are hungry. You tell whomever you have out there that the A & T students have their bags packed NOW!. Doesn't matter if it's Fairbanks, AK or Boca Raton, FL. We are ready to go if you guys are paying market rates.

Cameron Seay, Assistant Professor. North Carolina A&T State University.
School of Technology, 336.334.7717, Cameron Seay <cwseay@gmail.com>

Will students relocate for mainframe jobs?

(West Texas A&M)

Most of our students relocate as well. We have students in jobs and grad schools at significant distance from this region. Strong ditto relative to recruiters that invest in the career fairs and come to visit our classrooms and otherwise develop a relationship with our program and with our students.

Demand for our graduates is so high that the "cherry pickers" have no chance. Perhaps the IBM AI can "educate" corporate recruiters that they will have to work to get the talent they are after. And if they want more of it, some of the corporate recruiters will need to understand that "investment" means more than physical presence. Those that are willing to endow scholarships will always get more candidates for jobs than those who want to swoop in and skim the cream off.

H. Paul "Duke" Haiduk

H.Paul.Haiduk@cs.wtamu.edu

<http://cs.wtamu.edu/haiduk/>

Computer Science Program Coordinator

West Texas A&M University

Voice:(806) 651-2450

Will students relocate?

(Syracuse University, NY)

Nearly all Syracuse University students relocate after graduation. The destination is important to them, so some locations are more desirable than others. Also, some companies have more drawing power i.e. sex appeal (like Google, Facebook, Microsoft) than others. So the attraction formula is somewhat complicated.

Companies that send recruiters and hiring managers to attend campus career fairs, conduct campus information sessions and speak in classrooms on a regular basis fare pretty well. Those that stay away and try to recruit on an “old brand” or “swoop” in just for the one day career fairs, generally don’t fare as well.

David Dischiave, Assistant Professor
Program Director, Masters in Information Management
School of Information Studies
Syracuse University
Office: (315) 443-4681
ddischia@syr.edu

Does your CIO know

1,067 Schools - enrolled in the IBM System z Academic Initiative program, reaching students in 67 countries. Professors want to see the jobs for their students and industry participation

[Participating Schools](#)

Mainframe Contests - 43,825 students from 32 countries, high schools, colleges, and universities

[Master the Mainframe on facebook](#)

Mastery Test - 3,246 students from 40 countries completed the test

[FAQs](#)

Resources at no charge for the mainframe community - courses and modules

[Free resources](#)

Job Board (SystemzJobs.com) - 3,500 students and experienced professionals (job seekers) are using the job board looking for mainframe jobs. A no-fee service for IBM Clients and BPs to locate talent

[2 minute video on YouTube](#)

Case Studies (why schools are teaching the mainframe)

[Detailed case studies of 8 schools](#)

YouTube Videos (Professors, Students, Clients embracing z)

[The next generation of enterprise systems experts](#)

Where are the jobs?
Where are the Job Seekers?





Enterprise-level talent. Enterprise-class careers.

- > Lets employers post detailed job requirements for job seekers of all experience levels to review and apply
- > Free, secure, and easy to use for employers and job applicants
- > Global pool of talent specializing in mainframe technology, including both students and experienced professionals

→ **SystemzJobs.com**

SystemzJobs.com – 3488 Job Seekers



Welcome to the System z Job Board

Are you looking to hire talented System z professionals?
Are you seeking a career with System z technology?

Then you've found the right place! This web site connects [IBM System z](#) clients, partners and businesses with students and professionals seeking System z job opportunities.

Special limited-time offer! Employers who hire a candidate through Systemzjobs.com and agree to publicize their hiring success can receive a voucher to send an employee to an instructor-led [online System z course](#) (valued at \$1,200). Once you make a connection through Systemzjobs.com, simply send an email to zskills@us.ibm.com to request your voucher. First-come, first-served!

[Job Seekers](#)

[Employers/Recruiters](#)

Connecting clients with students

SystemzJobs.com

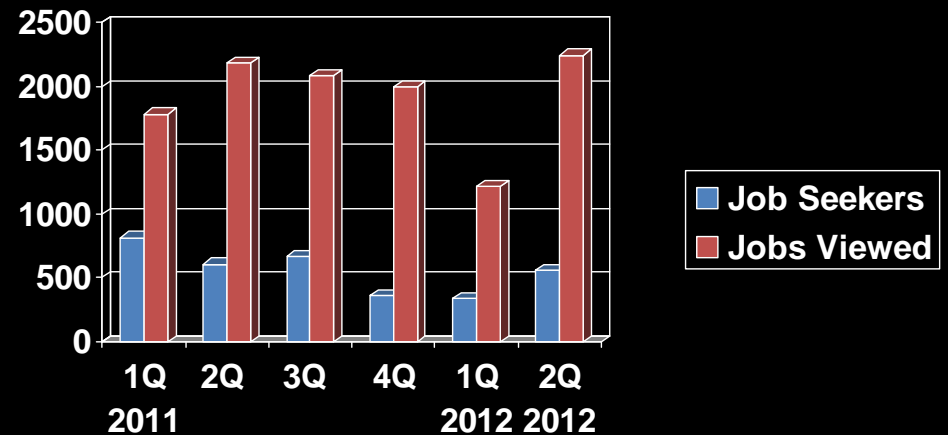
- Announced in February 2011

- Total Jobs Viewed 13,371

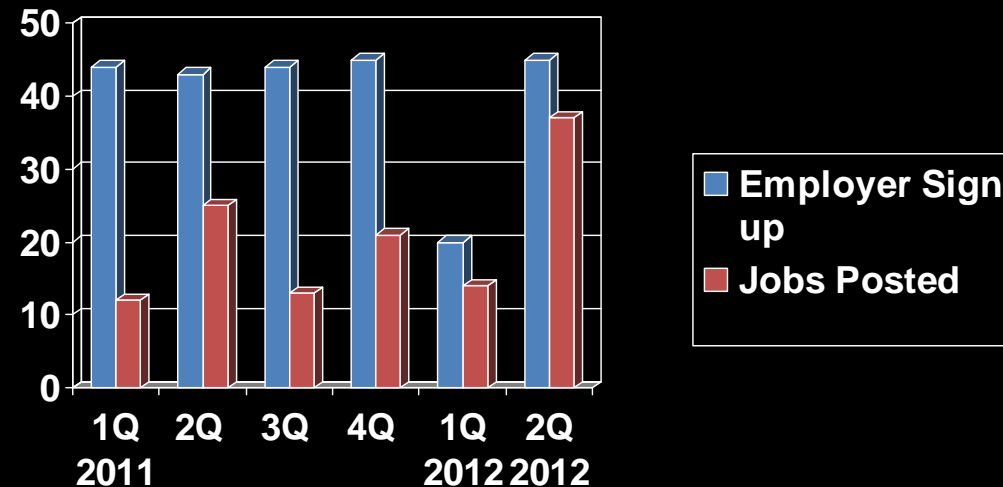
- Total Job Seekers Signup 3488

- Total Employers Signup 258

Job Seekers



Employers

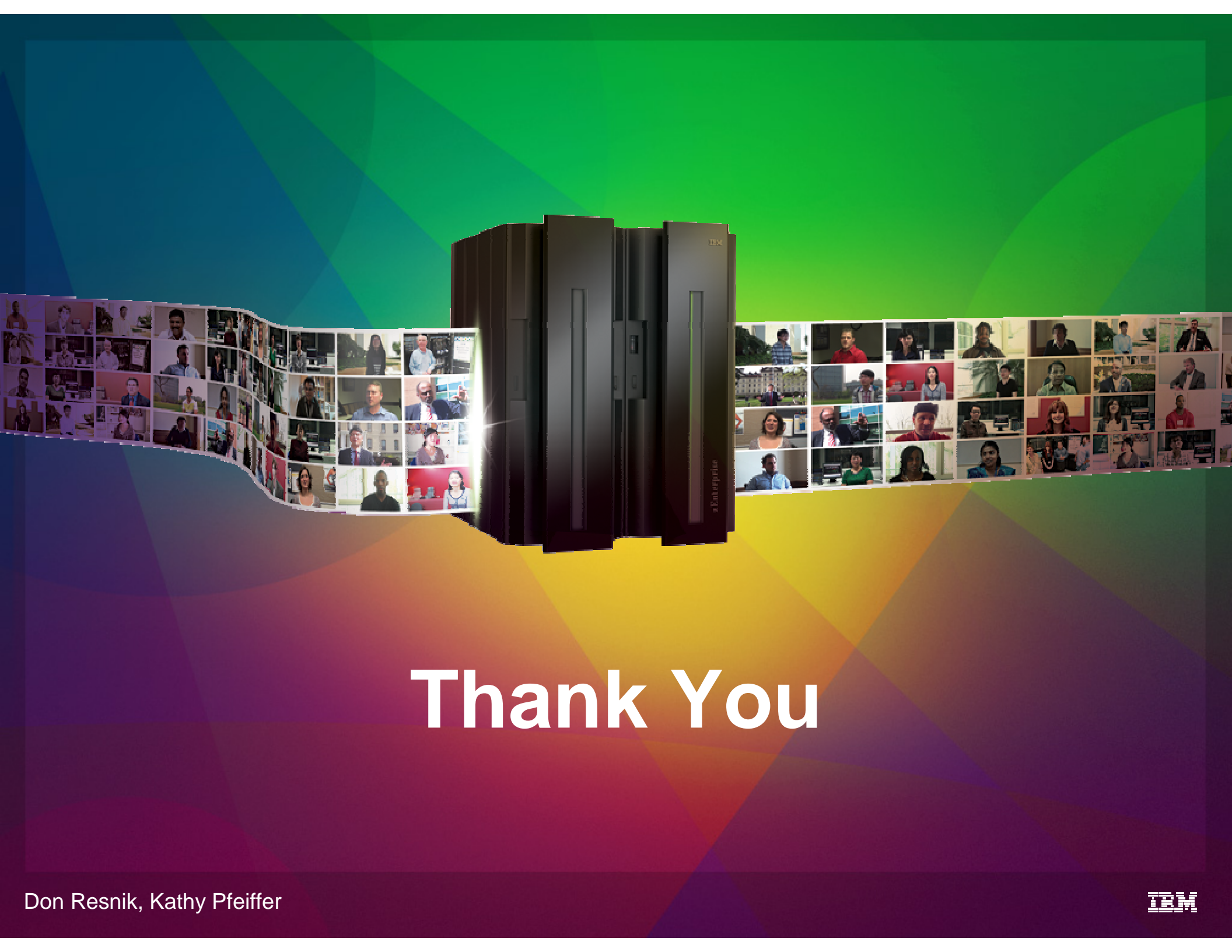


Enterprise-level talent. Enterprise-class careers.



Will you carry the message?
“Mainframe skills are ready for hire”





Thank You