

Building Mainframe Skills & Community

Reaching Globally

Scaling the program

Skilling up enterprise IT

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IBM z Systems Academic Initiative

Building enterprise systems talent for the future

Every business wants to attract, retain, and advance their enterprise systems skills.

We help by:

1. Locating talent (students and experienced professionals)
2. Establishing relationships with professors and students
3. Recruiting and influencing educators to teach skills IBM clients require
4. Providing alternatives for training current z Systems workforce



70 Countries

1,400 Universities

180,000 Students



Sources of students educated on z Systems

Master the Mainframe Contest Wall of Fame

- [Link to contest](#)
- Search internet on the following:

*“IBM Master the Mainframe
Contest Winners”*

or

*“Master the Mainframe”
facebook*

- Part 2 and 3 winners are the elite with the most acquired experience
- Send note to zskills@us.ibm.com to connect with students

Schools Teaching z Systems

- [Link to Academic Initiative member schools](#)
 - Organized by geography
 - Note the schools with a “Profile” or “Case Study”
- [Link to all school profiles](#)
 - Shows what they teach
 - Search for “*Academic Initiative*” by Public Folders, Public Files, or by tag

zSystemsJobs.com



Over 1400 schools
Using the z AI
program

These 25 schools in North America have taken mainframe education to the next level -

- multiple courses
- certificate programs
- minors
- concentrations.

Binghamton University NY	merwyn@binghamton.edu
California State at Dominquez Hills	mbeheshti@csudh.edu
Cegep De Thetford Quebec	flahaye@cegepth.qc.ca
Columbus State U, GA	rogers_neal@colstate.edu
DeVry University	ageist@devry.com
Eastern Illinois University	vahampton@eiu.edu
Fairleigh Dickinson University, NJ	lowy@fdu.edu
Fairmont State University, WV	Richard.Harvey@fairmontstate.edu
Illinois State University	cjong@ilstu.edu
Marist College, NY	learnzos@marist.edu
North Carolina A&T University	cwseay@ncat.edu
Northern Illinois University	rrannie@cs.niu.edu
Pace University NY	hwinkler@pace.edu
Southeast Community College, NE	bstutzma@southeast.edu
Robert Morris University, PA	turchek@rmu.edu
Rochester Institute of Technology	lwhfac@rit.edu
Ryerson University Toronto	jshuster@ryerson.ca
New York Institute of Technology	mpanero@nyit.edu
Syracuse University, NY	ddischia@syr.edu
University of Arkansas	DDouglas@walton.uark.edu
University of MD Eastern Shore	bcmitchell@umes.edu
University of North Texas	Steve.Guynes@unt.edu
University of South Carolina	pattenk@sc.edu
West Texas A&M University	H.Paul.Haiduk@cs.wtamu.edu
Widener University PA	syoon@mail.widener.edu

Scaling up in 2015 to grow z enterprise skills

- **University Ambassadors** – 54 z developers assigned to key universities
 - Liaisons to IBM and the community
 - Extend relationships to grow curriculum
 - Certificates, Concentrations, Minors
- **Enhanced Job Board** – zSystemsJobs.com - connecting talent with jobs
 - Resume repository
 - Improved filers
 - Add space for employers
 - Replaces Systemzjobs.com



First Time Ever in 2014.....

Master the Mainframe World Championship

Click below in Slide Show to view a YouTube

[Video](#)

Skilling Up – Resources

- MOOCs
- Master the Mainframe Contest
- Traditional classroom degrees
- Continuing Education
- Instructor Led online non-credit
- Online for credit and degree
- Professional Training

Continuing Education for z Systems

High value and Low cost

Features and Benefits

- 100% Instructor Led online
- Systems programming and Application programming Tracks
 - 7 Certificate programs
 - 17 unique courses
- Cost effective
- Study at your convenience
- Comprehensive curricula
- Instructors with extensive industry experience
- Active learning include labs, virtual classroom discussion, and projects
- Developed with support from IBM customers
- Linux on z/VM Admin classes added this year
- <http://idcp.marist.edu>

Systems Programming Track

z/OS Associate Certificate

Introduction to z/OS and Major Subsystems
z/OS Networking
z/OS Security

z/OS Professional Certificate

z/OS Advanced Topics
z/OS Reliability, Availability, Serviceability and Problem Determination (RAS and PD)
z/OS Emerging Technologies

z/OS Expert Certificate

z/OS Installation
DB2 Fundamentals
z/OS Performance Fundamentals

Application Programming Track

COBOL Certificate

Introduction to z/OS and Major Subsystems
Basic COBOL Programming
Advanced COBOL Programming

IMS Certificate

Introduction to z/OS and Major Subsystems
IMS Fundamentals
IMS Application Programming

Assembler Certificate

Introduction to z/OS and Major Subsystems
Basic Assembler Language Programming
Advanced Assembler Language Programming

DB2 Certificate

Introduction to z/OS and Major Subsystems
DB2 Fundamentals
DB2 Application Programming

Online Courses for credit



Robert Morris University Computer Information Systems Department Enterprise Systems Program

REQUIRED COURSES (15 credits)

Undergraduate Level	Graduate level
INFS2130 COBOL Programming	INFS6130 COBOL Programming
INFS3130 Advanced COBOL Programming	INFS6320 Advanced COBOL Programming
INFS3212 Enterprise Operating Systems	INFS6212 Enterprise Operating Systems
INFS3131 Enterprise Transaction Processing Systems using CICS/COBOL	INFS6321 Enterprise Transaction Processing Systems using CICS/COBOL
INFS4242 Enterprise Database Systems	INFS6242 Enterprise Database Systems

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IBM Authorized Training World Wide Start Here



Global Knowledge



Avnet Academy



LearnQuest



Ingram Micro Training



Arrow ECS Education

Training paths

IBM training paths can put your career on track for success.

Select a subject area below to view the recommended order of classes.

Software

Select a category

Systems

Select a category



IBM certification

IBM certification can assist in laying the groundwork for your personal journey to become a world-class resource to your customers, colleagues, and company, by providing you with the appropriate skills and accreditation needed to succeed.

[↔ IT Certify](#)

[→ IBM certification](#)

IBM Training Paths and Certifications

IBM System z Academic Initiative

2015 *Massive Open On-line Courses Available all year*

By popular demand - Free MOOC courses offer critical Enterprise Computing skills for both students and professionals & are free and open to anyone, anywhere, anytime through the Web.



An Introduction to Enterprise Computing

(Starting January 1 2015)



Enterprise Computing Strategies

(Starting in April 2015)



Introduction to Linux

(Available Now)

Introducing IBM z SystemsJobs.com



Linking marketplace talent to the industry z jobs on a worldwide scale.

Since 2011 the IBM z Systems “jobs board” has helped facilitate **talent connections**

- 40,516 job views by candidates
- 534 employers posting positions
- 5,868 job seekers
- 39% growth in job views

Today the IBM z Systems Job Connector has **new features and functions**

- A **complimentary service** for clients and partners to post jobs
- Job seekers can **post resumes** to obtain individualized exposure
- **Linked In** import capability to build experience profiles
- Direct **key word search** capability
- Facilitation of **2 way communication** between employers and candidates with anonymous entry point
- **Ad space** for employers to promote their brands and z job positions
- Improved exposure for job posts from IBM z clients and partners through **search result prioritization**
- Ability to **broaden search results** beyond Job Connector site for candidates across *Job Target* universe
- Greater **emphasis on international** jobs and global candidates
- Centralized **resources**, professional networks, and educational opportunities for users

Post your latest job positions to the z Job Connector today!

The screenshot shows the IBM z Systems Job Connector website. At the top, the IBM logo is on the left, and the text "z Systems Job Connector" is on the right. Below this is a navigation menu with "Job Seekers" and "Employers" sections. The "Job Seekers" section includes links for "Search Jobs", "Post a Resume", "Set up an Email Job Alert", "Access Your Job Seeker", and "Account". The "Employers" section includes links for "Post a Job", "View Resumes", "Products and Pricing", "Access Your Recruiter", and "Account". To the right of the navigation is a "Keyword Search" box with a "Go" button and a link to "Advanced Search". Below the navigation is a "Featured Jobs" section with three job listings: "Technology Developer and Analyst Intern Program" at Bank of America, "MQ for z/OS Systems Programmer" at Citigroup, and "CICS MQ Systems Analyst Entry Level" at Southern Company Services. At the bottom of the featured jobs section is a "View All jobs" link and the LinkedIn logo. On the right side of the page, there are two video thumbnails. The top one is titled "IBM zIQ - Can you go five minutes" and shows a video player with a progress bar at 0:00 / 0:51. The bottom one is titled "Make Life Matter" and features a man in a suit and glasses, with the text "Embrace your search for complex challenges." and the website "metlifegto.com".

IBM z Systems Community

Our Commitment to Ecosystem Vitality Post-Graduation

Community Links

[SHARE](#)

[z Technical University \(Annual\)](#)

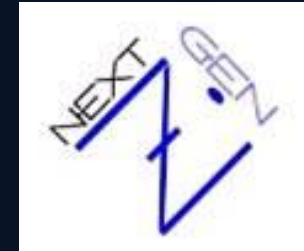
[zNextGen \(1000 +\)](#)

[Enterprise Computing Community \(1200+\)](#)

[Destination z \(5000+\)](#)

[Enterprise Executive](#)

[z Journal \(MainframeZone.com\)](#)



Enterprise Computing Community



Note: click the links when in Slide Show

Summary

We are working with universities to mint new mainframe professionals through our z Systems Academic Initiative with more than 180,000 students in 70 countries. We have a set of Massive Open Online Courses that are available 24/7 and free. The global Master the Mainframe contest designed for students with little or no mainframe experience is now starting its second decade. Contests have been held in 38 countries to date, with more than 74,000 students educated on the latest z technology. We had our first World Championship in 2014 and we'll repeat that in 2016. So, in terms of both workloads and skills we've got our eyes firmly fixed on the future.

A Journey that includes you

“The Enterprise Computing Community”

- Our impact (1400 schools in 70 countries) and programs included you –
 - Influencing educators*
 - Recruiting students*
 - Supporting user groups
 - Academic awards
 - Contest judges
 - Spreading the message*

* You can do this! Next chart

Thank you for using IBM z Systems

A Journey that you help drive....

A few thoughts:

- Influencing educators
 - Introduce program to alma mater or local schools
 - Contact IBM for support (zskills@us.ibm.com)
- Recruiting students
 - Guest Lecture at local high school or college
 - IT's Best Kept Secret
- Spreading the message
 - If available/appropriate, invite students into your shop:
 - Discuss value of the mainframe
 - Use IT's Best Kept Secret
 - Tour of datacenter if possible.

Thank You for Your Interest in Building Mainframe Skills & Community