z Academic Initiative
The hits just keep coming
# Employers

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<th><strong>Find talent</strong></th>
<th><strong>Reference Guide</strong></th>
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<td>Universities worldwide offer mainframe education and talent</td>
<td>Resources to help recruit, train and retain z Systems skills</td>
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<th><strong>Explore training</strong></th>
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<td>The Skills Gateway provides learning journeys and access to technical training</td>
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<td>Coming soon...are you interested in implementing an Apprenticeship Program? Contact us!</td>
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<td><a href="https://ibm.biz/zemployer">ibm.biz/zemployer</a></td>
<td><a href="mailto:Meredith.Stowell@us.ibm.com">Meredith.Stowell@us.ibm.com</a></td>
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Find talent

Universities worldwide offer mainframe education and talent

ibm.biz/zschools

Examples of new schools in the last year

- Alabama State
- Middlesex Community College
- Pittsburg Tech
- St. Paul College
- Touro University
- William Paterson
Examples of schools in progress (* roundtable)

- Alabama A&M
- Albany State (*)
- Bergen County Community College
- Brandman University (*)
- Durham College
- Hofstra University
- Jackson State (*)
- Lawrence Technical University (*)
- Moberly Area Community College
- NC Central
- Penn State Scranton
- Polytechnic Univ of Puerto Rico (*)
- Saint Augustine’s (*)
- Seneca College (*)
- Southern University and A&M
- Sacramento State (*)
- University of MD Baltimore County (*)
- Virginia Commonwealth
- Virginia State (* to expand program)
- Wilmington University
Role of the z University Ambassador

Listen

University

Industry

zAmbassador

IBM

Students

Connect

Communicate
Sponsor Projects

Capstone – student led, 1 or 2 semesters
Research – faculty led, multi-year

Contact Misty@us.ibm.com

Why?
• Cheaper than doing it in house
• Pipeline of students with exact skills needed
• Positive impact on local community

Examples
• COBOL Modernization
• Blockchain
• Proof of Concept
• Use cases
• Industry best practices
• Machine Learning
Reference Guide

Resources to help recruit, train and retain z Systems skills

ibm.biz/employer_ref

• Find schools that participate in the z Academic Initiative Program
• Find Job Candidates
• No-Cost Training Options
• For Fee Certificate Programs/Badged Offerings/Boot Camps
• IBM’s Global Training Providers for z Systems Education
• Additional Mainframe Learning Services
• Events and Conferences
• Participate in User Groups and zCouncil Meetings
• Gen z – New Tenure Mainframer Community
• Interesting Articles about z Systems
Post a job

Use the zJobconnector to find z Systems mainframe skills

www.zjobconnector.com
Explore training

The Skills Gateway provides learning journeys and access to technical training

[www.ibm.com/services/learning]
Join the community

Join the z Systems Advocacy Hub to get involved with local schools, learn and connect

ibm.biz/zemployee
Registered Mainframe Apprenticeship Program

Coming soon…are you interested in implementing an Apprenticeship Program? Contact us!

Meredith.Stowell@us.ibm.com

Cross Campus Collaboration Nets N.C. A&T $7.5 Million Contract with U.S. Dept. of Labor

The Division of Research and Economic Development at North Carolina Agricultural and Technical State University in conjunction with Lead Principal Investigator Dr. Cameron Seay in the College of Science and Technology, announces it has secured a federal contract through the U.S. Department of Labor. The five-year contract, with a value of $7.5 million, will commence in late October 2016 with the goal of increasing the numbers of underrepresented minorities and women in science, technology, engineering and mathematics (STEM) related fields. The contract will focus specifically on information technology as it relates to talent development for mainframe computers, on which the global economy depends.

IBM, a key collaborator in the grant proposal and apprenticeship program, has pioneered the mainframe through various innovations over the past decades. The IBM z Systems mainframe is a secure, high-performing computer system that remains the backbone of the global economy. The mainframe handles the core business applications for 44 of the top 50 global banks, 21 of the top 25 insurers worldwide and 18 of the top 25 U.S.-based retailers. As the demand for mainframe skills remains high, grants like this that pair technology experts and educators are key to providing the talent to keep these essential systems on the leading edge of business innovation.
IBM Gen z Workshops

WELCOME TO THE MAINFRAME

IBM offers special one day workshops for individuals to learn more about z Systems and to network with others new to the platform. These events are designed for folks who have 10 years or less of experience with enterprise computing and want to learn more about the global impact of mainframes. Participants will work in teams throughout the day and are invited to attend a fun social gathering afterwards.

Typical Agenda:
- Introductions and icebreakers
- Honest thoughts on the mainframe
- Overview on why z matters
- Analyzing real z client case studies
- Design Thinking Overview
- Design Thinking Workshop
- Group Presentations
- How to stay involved with the z community
- Social outing

Info:
- **Cost:** Free
- **Who:** Individuals with 10 or less years of mainframe experience
- **Website:** http://generation-z.eu- gb.mybluemix.net/
- **Questions:** Email Christy Schroeder at christys@us.ibm.com with the subject “Gen z”
50% Off

Full Event Individual Member Pass (Normally $1850)

- Pay just $925
- Must be 35 years of age or younger to qualify
- Send an email to registration@share.org with a copy of an official document that lists date of birth (e.g. driver’s license, passport, etc.)
- Validated candidates will receive an email containing a personalized discount code that can be applied at SHARE registration checkout. This discount can be applied retroactively to members who have already registered
<hackathon/>

Tuesday, August 8, 2017

Featured at SHARE Providence, an Enterprise IT community event. Attend to learn about the latest technology solutions and careers, meet with industry vendors, and receive personal tours.
## Students

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<th>Master the Mainframe</th>
<th>Access free e-Learning</th>
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<td>Start learning on a virtual platform and earn open badges – year round Learning System open to the public</td>
<td>Academic students get 44 hours of online courses (COBOL, JCL, DevOps, DB2) and earn an open badge</td>
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- [ibm.biz/masterthemainframe](ibm.biz/masterthemainframe)
- [ibm.onthehub.com](ibm.onthehub.com)

## Educators

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<th>Access courseware and systems</th>
<th>Use the guide</th>
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<td>Find presentations, labs, quizzes and free access to z/OS and LinuxONE for hands on exercises</td>
<td>The Educator QuickStart offers everything needed to get started</td>
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- [ibm.onthehub.com](ibm.onthehub.com)
- [ibm.biz/zeducator_guide](ibm.biz/zeducator_guide)
Master the Mainframe

Start learning on a virtual platform and earn open badges – year round
Learning System open to the public

ibm.biz/masterthemainframe

The benefits to you

Educators
The contests provide tutorials, graded hands-on exercises and progressive learning and can be quickly incorporated into class assignments. Educators can join the Academic Initiative to gain access to additional curriculum and learning labs.

Students
Students who compete in the contest get unprecedented exposure to a wide variety of enterprise systems, software, and products. And potential employers can find you through the contest and job board.

Employers
The initiative and contest build enterprise computing skills — and connect employers to thousands of talented people. You can use the job board to find talent for internships and job opportunities.
An Enterprise Systems Contest

Provides students hands on experience with Cloud technology & multiple operating systems using C, Java™, COBOL, assembler, REXX™, Linux®, z/VM®, z/OS®, z/TPF and more. No prerequisites.

Recruit a Winner!

- Winners listed on “Wall of Fame”
  - 2015 Contest
  - 2016 Contest
- Part 2 and 3 winners have most acquired experience

Master the Mainframe 2016 Contest
Over 10,000 participants!!

12 Years
64 Countries
Access free e-Learning

Academic students get 44 hours of online courses (COBOL, JCL, DevOps, DB2) and earn an open badge

ibm.onthehub.com

IBM z Enterprise Computing Kickstart
44 hours of online, self-paced education

• DevOps
• COBOL
• JCL
• DB2
• And more
Access free e-Learning

Academic students get 44 hours of online courses (COBOL, JCL, DevOps, DB2) and earn an open badge

ibm.onthehub.com

- No cost, online, self-paced education
- 44 hours of instruction
- Variety of Enterprise Computing Topics
- IBM Enterprise z Computing Essentials Badge

Act Now! Limited number of offers available!

ibm.OnTheHub.com
Access courseware and systems

Find presentations, labs, quizzes and free access to z/OS and LinuxONE for hands on exercises

ibm.onthehub.com

Current Course offerings

- Z/OS
- Linux
- z/VSE
- z/TPF
- z/VM
- IT in the Enterprise
- COBOL
- Assembler
- Networking
- Security
- IMS
- Rational Developer for z
- Systems Testing
- Emerging Technologies
- Transaction Management

System Access

- z/OS Academic Cloud
- LinuxOne Community Cloud
Use the guide

The Educator QuickStart offers everything needed to get started

ibm.biz/zeducator_guide

Step 1: Understand the IBM Academic Initiative and the Value of Enterprise Systems

What the IBM Academic Initiative is: [http://ibm.biz/AcademicInitiativeVideo](http://ibm.biz/AcademicInitiativeVideo)

Why Enterprise Computing is vitally important:
- zIQ Videos: [https://www.youtube.com/playlist?list=PLez1S0Tuqb-5n8R-JYVqawVYYs89TbB](https://www.youtube.com/playlist?list=PLez1S0Tuqb-5n8R-JYVqawVYYs89TbB)
- Real World Cases: [https://www.youtube.com/playlist?list=PLez1S0Tuqb-5CO66kegL-YzHvUso8CpL](https://www.youtube.com/playlist?list=PLez1S0Tuqb-5CO66kegL-YzHvUso8CpL)
- The System Behind the App: [https://www.youtube.com/watch?v=jtgpl_venqY](https://www.youtube.com/watch?v=jtgpl_venqY)

Explore the many offerings available through the IBM Academic Initiative:

Step 2: Incorporate Module into Existing Course

IBM Course: An Introduction to the Mainframe – Existing Course Module Insert

This course helps students gain an understanding of the reasons companies chose mainframe systems to run (and grow) their large scale computing environments. Topics include capacity, scalability, integrity and security, availability, access to large amounts of data, systems management, and autonomic capabilities. Send an e-mail to zSkills@us.ibm.com to request ID’s for you and your students at no cost.

Sponsor Projects

Capstone – student led, 1 or 2 semesters
Research – faculty led, multi-year

Contact Misty@us.ibm.com

Why?
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Examples
• COBOL Modernization
• Blockchain
• Proof of Concept
• Use cases
• Industry best practices
• Machine Learning
External Accounts

About 15K external accounts issued last year
Blockchain

Center of Excellence
COE Initiation

- Initial Meeting – May 24, 2017
- Purpose and Expectations
- Blockchain Challenges (ArcBest Technologies, Dillard’s, Tyson Foods, Walmart)
  - Industry Experiences and Trajectory
- COE Roadmap – Blockchain and Cognitive Computing
  - COE Vision and Mission
  - Identify Key Focus Areas
  - Key Success Factors
  - Value Proposition and Funding
- Next Steps and Timeline
- Adjourn
Vision

• To become a premier academic leader in the advocation and education on blockchain, cognitive computing and analytics
Mission

• Develop and establish research partnerships, alliances, and standards
• Conduct collaborative industry-university research (proof of concepts, use cases, projects, etc.)
• Promote and enable knowledge dissemination
• Influence acceleration of industry adoption and value identification
Key Focus Areas

- Sourcing
- Academic
- Trade
- Security
- Regulations
- Marketing
- Analytics/Visualization
- Innovation Lab with data and tools “playground”
Assessment

- Outcomes
- PoCs to Production
- Academic courses
- Internships
- Number of graduates/declaration of specialization
- Publications
- Waiting list for industry membership, university members
- Feedback from projects to industry in the blockchain community
- Influence on HyperLedger
Next Steps and Timeline

• Conference call – June 27, 2017
  – Confirm vision, mission, etc. statements
  – Commitment for cases/(with data?) to be used in classes starting fall 2017
  – Identify industry participants for Blockchain Hackathon fall 2017
Announcement & Celebration
TBD
Blockchain
COE
New Mainframe apprenticeship degree, UK
- UK Government introduced a Apprenticeship Levy; can be used for a) fund your own Apprenticeships or b) give it to the Government
- z clients (Barclays, Loyds,..), z partner, University of Bedfordshire, Manchester Metropolitan University,..

AMC - Academic Mainframe Consortium
- New association with z clients, z partner and Universities to support Mainframe education, great collaboration

New ‘Mainframe’ MOOC course at HPI, Germany
- Over 2700 people are registered
- Course is open for everybody, German language
- Started: June 7th 2017, 6 weeks course
- Forum for discussions and questions
- Exam at the end, students can earn 2 ECTS
- https://open.hpi.de/courses/mainframes2017
- Plan: next year the course should be in english

Virtual University Bavarian
- New online Mainframe master degree course

Excellent z education = top MtM-WC 2016 results
- The MtM-WC 2016 winner and 6 out of 10 finalists are from Europe
- Mainframers do IT better
We are here to help - Contact Us!

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Thank you!