

# System z Premier Executive Event



## IBM's Academic Initiative - Building Skills through Partnership

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Client Skills and Academic Initiative  
IBM Systems and Technology Group

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Chair - Computer Science Department  
California State University



# System z Academic Initiatives

Student Hiring

CONNECTIONS  
(academia/industry)

GROWTH  
(# schools)

OUTREACH  
(community)

Program  
INVESTMENT  
Continues



1.

2.

3.

4.

5.

# System z Academic Initiatives – Assist and Enable educators, clients, and community

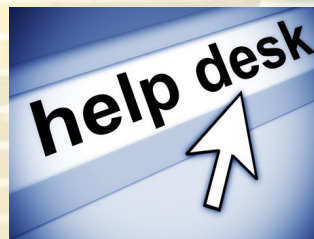


**Access to mainframes worldwide for teaching (no fee)**

- Marist College NY
- U of Arkansas
- Illinois State U
- Syracuse U
- NC A&T U
- SC CESM
- Brazil
- Germany
- France
- China



**45 Courses, z/OS Mastery Exams, Coupons, Professor Seminars, Ambassadors, Funding & Support world wide, Job Board,**



**z Skills Help Desk**  
*to assist clients and community*  
[zskills@us.ibm.com](mailto:zskills@us.ibm.com)

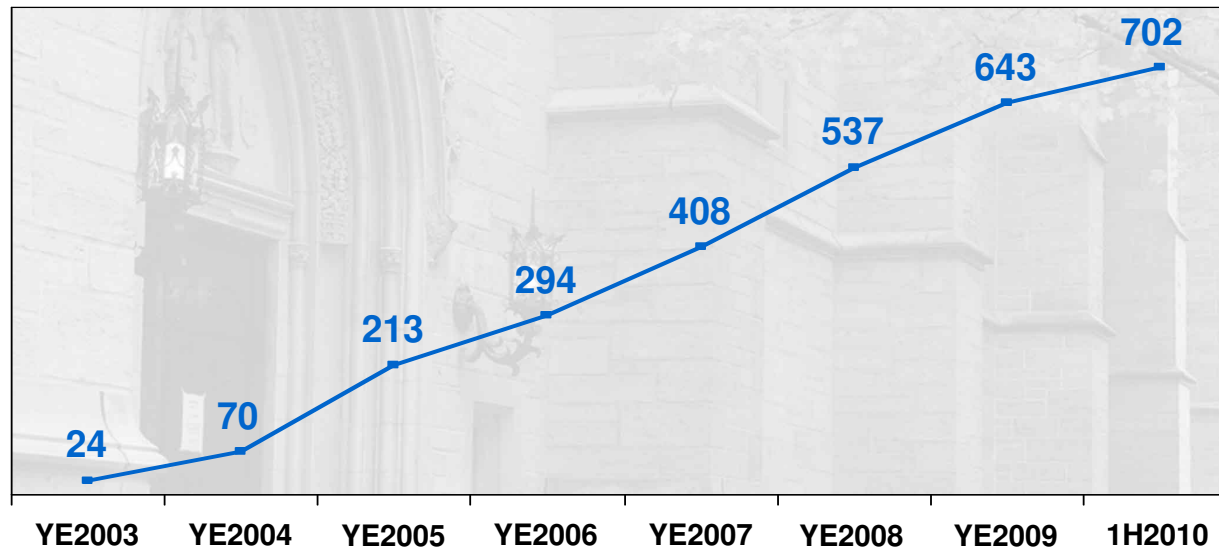


**Student Mainframe Contests**  
*5 years*  
 • 15 countries  
 • 22,000 students, 3000 schools



**Awareness – academic and industry**  
 Roundtables, conferences, seminars,  
*Expanding worldwide*

## Member schools worldwide in System z Academic Initiative



- 702 Participating Schools – **>50,000 students attended mainframe education, reaching students in 61 countries**
- Participation continues to increase - **+20% in 2009**
  - 45% North America
  - 24% Europe, Middle East, and Africa
  - 16% Latin America
  - 15% Asia/Pacific
- Wide variety of schools in the program - ***Different level of participation***

# Z Academic Initiative Sample Reference Schools in US

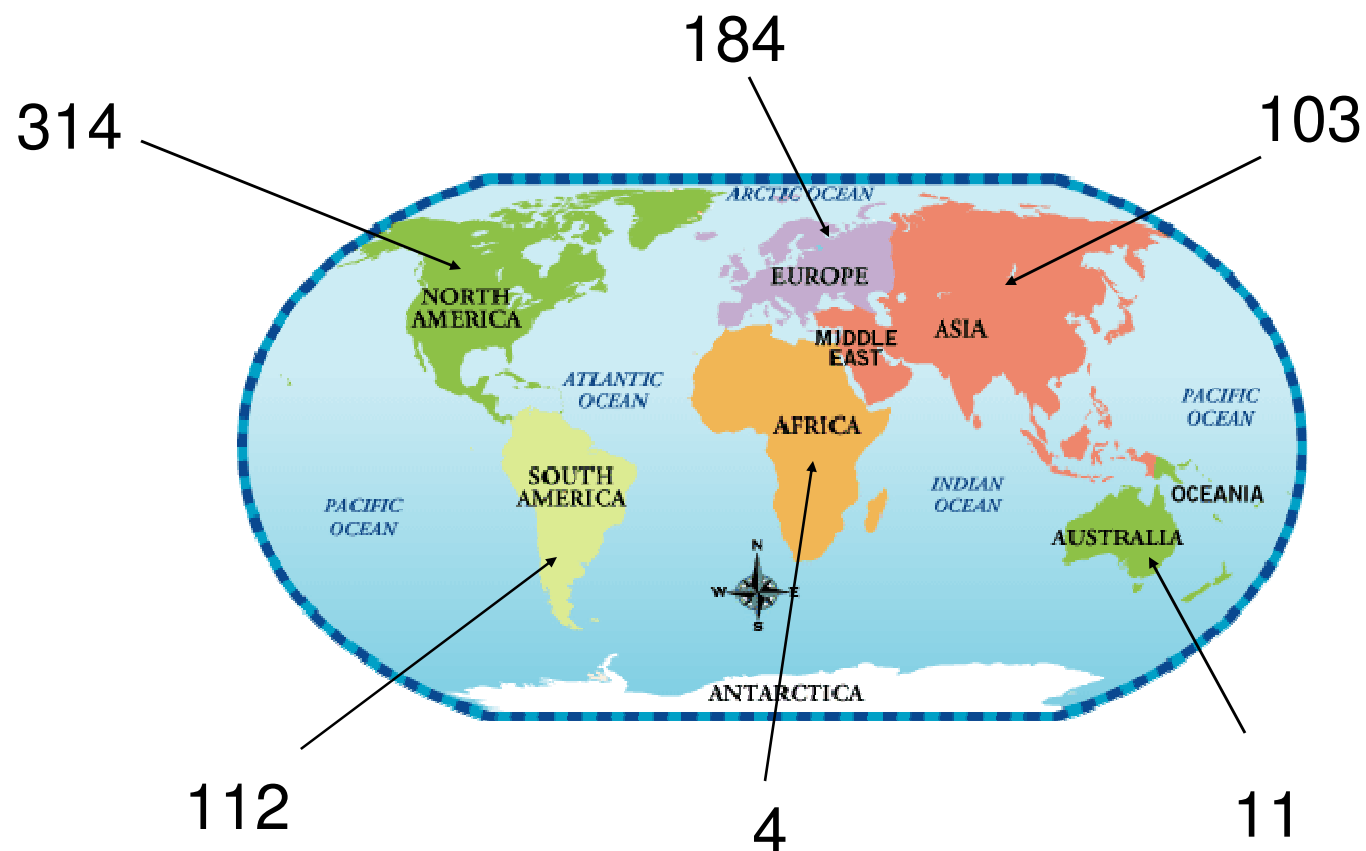
## North America

- Syracuse University, NY
  - Illinois State University
  - Marist College, NY
  - University of Arkansas
  - Columbus State University, GA
  - University of MD East Shore
  - RIT NY
  - Binghamton University
  - Stevens Institute, NJ
  - Northern Illinois University
  - North Carolina A&T University
  - North Carolina Central University
  - Eastern Illinois University
  - University of South Florida
  - Washington University, MO
  - Widener University, PA
  - West Texas A&M
  - University of South Carolina
  - San Jose State University, CA
  - State Fair CC, MO
  - Houston CC, TX
  - Ryerson University, Canada
  - Georgian College, Canada
  - Cegep de Thetford, Canada
  - Monroe College
  - California State University, Dominguez Hills
- David Dischiave - [ddischia@syr.edu](mailto:ddischia@syr.edu)
  - Chu Jong - [cjong@ilstu.edu](mailto:cjong@ilstu.edu)
  - Angelo Corridori - [learnzos@marist.edu](mailto:learnzos@marist.edu)
  - David Douglas - [DDouglas@walton.uark.edu](mailto:DDouglas@walton.uark.edu)
  - Neil Rogers - [rogers\\_neal@colstate.edu](mailto:rogers_neal@colstate.edu)
  - Bryant Mitchell - [bcmittchell@umes.edu](mailto:bcmittchell@umes.edu)
  - Charles Border - [cbbics@rit.edu](mailto:cbbics@rit.edu)
  - Merwyn Jones - [merwyn@binghamton.edu](mailto:merwyn@binghamton.edu)
  - Dominic Duggan - [dduggan@cs.stevens.edu](mailto:dduggan@cs.stevens.edu)
  - Robert Rannie - [rrannie@cs.niu.edu](mailto:rrannie@cs.niu.edu)
  - Larry Burton - [lwburton@ncat.edu](mailto:lwburton@ncat.edu)
  - Cameron Seay - [cseay@nccu.edu](mailto:cseay@nccu.edu)
  - Vicki Hampton - [vahampton@eiu.edu](mailto:vahampton@eiu.edu)
  - Kaushal Chari - [kchari@usf.edu](mailto:kchari@usf.edu)
  - Kelly Hoffmann - [kellyh@cait.wustl.edu](mailto:kellyh@cait.wustl.edu)
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  - H. Paul Haiduk - [H.Paul.Haiduk@cs.wtamu.edu](mailto:H.Paul.Haiduk@cs.wtamu.edu)
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  - Joshua Panar - [ipanar@scs.ryerson.ca](mailto:ipanar@scs.ryerson.ca)
  - Greg Rodrigo - [grodrigo@georgianc.on.ca](mailto:grodrigo@georgianc.on.ca)
  - Francois La Haye - [flahaye@cegepth.qc.ca](mailto:flahaye@cegepth.qc.ca)
  - Janice Girardi - [jgirardi@monroecollege.com](mailto:jgirardi@monroecollege.com)
  - Mohsen Beheshti - [mbeheshti@csudh.edu](mailto:mbeheshti@csudh.edu)

Please contact these educators and ask about their mainframe curriculum and students.

For a list of more schools, see:  
[ibm.com/  
university/systemz](http://ibm.com/university/systemz)

## Schools Participating in z Academic Initiative - Globally



Leadership globally to connect clients with universities

## Opportunities for clients to increase mainframe skills

- List of schools teaching the mainframe  
No charge [ibm.com/university/systemz](http://ibm.com/university/systemz)

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- Enterprise Computing Community  
No charge [ecc.marist.edu/](http://ecc.marist.edu/)

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- z/OS® Certificate Program  
Reduced Fee – college credits [idcp.org/learnzos](http://idcp.org/learnzos)

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- IBM Training e-learning bundles  
Reduced Fee [ibm.com/training](http://ibm.com/training)

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- Community Resources  
No charge [ibm.com/systems/z/advantages/newtosystemz/](http://ibm.com/systems/z/advantages/newtosystemz/)

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- Introduction to z Mini-Bootcamp  
No charge – web deliverable [idcp.org/learnzos](http://idcp.org/learnzos)

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- z Skills Help Desk  
No charge [ibm.com/systems/z/education/skills\\_coursematerials.html](http://ibm.com/systems/z/education/skills_coursematerials.html)

# California State University Dominguez Hills (CSUDH)

- CSU System serves about half a million students
- CSUDH is One of 23 campuses within the CSU System
- CSUDH is a comprehensive urban university, located in the city of Carson
- CSUDH has over 15,000 students
- CSUDH is locate 20 minutes South East of LAX
- CSUDH Offers a wide range of Bachelors and Masters programs

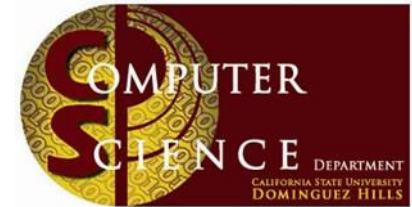




# Computer Science Department (CSC)

College of Natural and Behavioral Sciences (NBS)

California State University, Dominguez Hills (CSUDH)



**Department serves more than 250 graduate and undergraduate students**

- **Masters of Science in Computer Science - MSCS**
  - Software Engineering Concentration (SE)
  - Distributed Systems and Networking Concentration (DSN)
- **Bachelor of Science in Computer Science - BSCS**
- **Bachelor of Science in Information Technology - BSIT** (Pending final Approval)
- **Bachelor of Arts in Computer Technology - BACT**
  - Homeland Security (HLS)
  - General Track (G)
  - Professional Track P)
  - Minor in CT
  - Certificate in CT
  - **Certificate in IBM** (pending)

# z/OS

## Computer Science Department (CSC)

### California State University, Dominguez Hills (CSUDH)



**Mohsen Beheshti**, Chair

[mbeheshti@csudh.edu](mailto:mbeheshti@csudh.edu)



#### Bachelor of Arts in Computer Technology

- **z/OS Courses – Taught by IBM professionals**
- **z/OS and Networking Support (CTC 316) - spring**
  - An introduction to O/S and networking Support.
- **z/OS Security (CTC 428) - fall**
  - Provides an in depth look at operating system security concepts and techniques.
- **Software Project Management (CTC 310) – in preparation**
- **IBM Certificate (9 units – 3 courses)**
- BACT program started fall 2008
- BACT program has over 100 students

# Industry partnerships

## Venues:

- Lecture Series
- membership to our Computer Science Advisory Council
- Let us know what other topics you want us to cover
- Internships

## Leading Educators meet Industry at SHARE conference - August 2, 2010

California State University, CA

Columbus State University, GA

Illinois State University, IL

Marist College, NY

North Carolina A&T University, NC

Pace University, NY

Stevens Institute of Technology, NJ

Syracuse University, NY

University of Arkansas

University of Maryland Eastern Shore

University of South Carolina

Widener University, PA

**Mohsen Beheshti**

**Dr. Wayne Summers**

**Dr. Chu J. Jong**

**Dean Roger Norton,  
Susan Scanlon**

**Dr. Cameron Seay**

**Dr. Lixin Tao**

**Dominic Duggan**

**Susan Dischiave,  
David Dischiave**

**Dr. David Douglas**

**Dr. Bryant Mitchell,  
Dr. Gurdeep Hura**

**Robert Brookshire**

**Dr. Suk-Chung Yoon**

## Summary

- *IBM continues to invest in developing more mainframe skills for our clients*
- *The mainframe community (ambassadors) continues outreach to educators world wide*
- *The program and the number of schools continues to grow*
- *IBM Clients are connecting with System z Academic Initiative member schools*
- *There are frequent examples of hiring and investment in mainframe skills*



## Student at Syracuse University writes to his Professor

**From:** mbbutler@syr.edu [mbbutler@syr.edu]  
**Sent:** Thursday, February 18, 2010 11:21 PM  
**To:** David Dischiave

**Subject:** Thank you!!

*Professor Dischiave,*

*I don't even know where to start. You have prepared me far beyond any other candidate for the internship and even the full-time job equivalent! No one at my table at the reception knew anything about mainframe technologies I talked about Z/OS a few times and understood when a manager was talking about LPARs.*

*Each manager that works with mainframe technology that came to my table made it clear that they need more young mainframe people! Exactly what you have told us came out of their mouths! The technology is so important and the people who know it are retiring soon!*

*Honestly, I am so excited to go to the interviews all day tomorrow so I can push for the mainframe part of the job again!*

*Because of you, I'm more marketable than the rest and I stand out as a prepared, knowledgeable, and motivated student!*

*Thank you!!!!!!!!!!!!*

Best regards,  
Matt