Power Systems Academic Initiative (PSAI)

Program Overview
July 2019
# Teaching IBM Power Skills for 23 Years

**Historical Perspective**

<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
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<tbody>
<tr>
<td>1996</td>
<td>AS/400 Partners in Education</td>
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<td>2002</td>
<td>IBM Scholars Program: iSeries</td>
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<td>2004</td>
<td>IBM Academic Initiative: iSeries zSeries</td>
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<td>2008</td>
<td>Power Systems announced</td>
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<td>2009</td>
<td>Power Systems Academic Initiative (PSAI)</td>
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<td>2012</td>
<td>PSAI relaunch</td>
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<tr>
<td>2019</td>
<td>439% Growth (since 2012)</td>
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**Mission:** To help provide market-ready Power skills to our clients by partnering with colleges and universities worldwide.
PSAI Snapshot

Mission: To help provide market-ready Power skills to our clients by partnering with colleges and universities worldwide

Open to colleges and universities worldwide with 728 participating schools representing 68 countries.

✓ Educate: Increase awareness and education of students about Power Systems technology and operating systems -- IBM i, AIX, and Linux.

✓ Equip: Provide educators with materials, technology, and resources to teach Power Systems technology, skills, and business applications.

✓ Connect: Help educators establish connections with their local IBM Power Systems business community to encourage collaboration.

✓ Employ: Facilitate linkage between graduates and clients for internships and jobs that require Power Systems skills. Provide access to Power Systems Job Board.

* Participating means a school is: teaching IBM Power in a classroom or online, doing research on Power, using our academic cloud for homework/classwork/projects, downloading courses, and/or developing a course/program for an upcoming semester.
Available PSAI Materials and Resources

**IBM Courseware**
- IBM i, Linux, AIX
- Cognitive
- Zend PHP (5)
- Red Hat (5)
- SUSE (1)

**IBM Educational Resources**
- Technical Library
- Redbooks
- IBM Subject Matter Experts

* Provided at No Charge *

**Job Board**
- Internships
- Entry-Level Jobs
- Experienced Professional

**Academic Cloud**
- Power Systems (7+ and 8)
- Full-Time Availability; Help Desk
- Teaching and/or Research
Power Systems Academic Cloud Environment

- Over 21 years of history
- Enormous PSAI growth requires enhanced infrastructure
- Superior power, security, and infrastructure
- Upgraded hardware to Power 7+ and Power 8 (2 high end)
- DS8000 / DS8800 (3) storage in place
- Over 450 colleges and universities using our academic cloud today

Order the academic cloud today!
For More Information: ibm.com/university/power

IBM Power Systems Academic Initiative

Educating the next Power Systems generation!

Welcome  AIX  IBM i  Linux  Cognitive

For over 20 years, the IBM Power Systems Academic Initiative (PSAI) has equipped educators with materials, technology, and resources to teach Power Systems skills that are needed by our clients worldwide. These resources include IBM courses, our Power Systems Academic Cloud, and entry-level and experienced professional job boards. Our PSAI materials can be easily integrated into any curriculum or course of study to teach a variety of concepts. The PSAI has enabled colleges and universities to successfully enhance their computer science, information systems, engineering and business programs, resulting in students who can compete in the job market of any industry.

All PSAI materials and resources are available to members at no charge!

Learn More

Contact the PSAI team
→ Participating schools

PSAI job boards
→ Entry-level/Internships (North America)
→ Experienced professionals (Global)

Explore more
→ Previously featured in the spotlight
→ Access our Power Systems Academic Cloud
→ Linux on Power Developer Portal
Explore Additional Power System Courses

Access a comprehensive library of additional courseware material available for AIX, IBM i and Linux on Power for beginner, intermediate and advanced users. Registered members can download this curriculum at no cost.

Explore AIX Courses  Explore IBM i Courses  Explore Linux Courses

IBM Academic Initiative agreement

Beginner courseware
- AIX Basics (AN10)
- Power Systems for AI

Intermediate courseware
- RPG IV Programming Fundamentals Workshop for IBM i (AS06)
- System Operator for IBM i (AS24)
- DB2 for i - DB Coding and Implementation Using DDS and CL Commands (OL62)
- Programming in ILE RPG (RPGIBM1)
PHP and Zend Framework Courseware

1. **PHP I Foundations for IBM i** -- Designed specifically for IBM i professionals, this course provides RPG/ILE programmers with a solid foundation in the PHP language. IBM Power Systems developers and administrators will receive an overview of the PHP language and main concepts, allowing them to drive application modernization and bring the power of web and mobile development to the IBM i platform.

2. **PHP Fundamentals I** -- Designed to provide beginner programmers with a solid foundation in the PHP language, this course guides students through the basics of PHP with an experiential approach, filled with numerous examples and hands-on exercises, including substantial practice in coding parts of a fully functional application.

3. **PHP Fundamentals II** -- This course is designed to teach intermediate PHP developers the higher level concepts, including a detailed introduction to object oriented programming. Students will be able to use advanced language and web development methodologies to create more advanced web-based PHP and mobile back-end applications.

4. **Zend Framework Fundamentals I** -- This course is designed for intermediate to advanced PHP developers who have a solid foundation in the PHP language and object-oriented programming. Students will learn how to leverage the power of Zend Framework to build well-designed, scalable, and maintainable web applications quickly and competently.

5. **Zend Framework 2: Advanced Concepts** -- Designed for proficient PHP programmers with practical experience and familiarity with Zend Framework 2 (ZF2), this course perfects students’ skill sets and allows them to master Zend Framework 2.
Red Hat Enterprise Linux Courseware

1. **Red Hat System Administration I** -- Relates to Red Hat Enterprise Linux 7, and is designed for IT professionals without previous Linux administration experience. The course focuses on providing students with Linux administration "survival skills" by focusing on core administration tasks.

2. **Red Hat System Administration II** -- Specifically designed for students who have completed Red Hat System Administration I, and focuses on key tasks needed to become a full-time Linux® administrator.

3. **Red Hat System Administration III** -- Related to Red Hat Enterprise Linux, 7, and designed for experienced Linux system administrators who hold a Red Hat Certified System Administrator (RHCSA) certification or equivalent skills and who want to broaden their ability to administer Linux systems at an enterprise level.

4. **Red Hat JBoss Enterprise Application Development I** -- Learn how to create, test, and maintain Java EE-compliant applications from start to finish using the Eclipse-based Red Hat JBoss Developer Studio.

5. **Red Hat OpenStack Administration I** -- Designed for system administrators who are intending to implement a cloud computing environment using Red Hat OpenStack Platform. This course is based on Red Hat OpenStack Platform 8.
In this course, you are introduced to the basic knowledge and skills necessary to perform fundamental SUSE Linux Enterprise 12 operating system tasks. It is also ideal for those who want to begin preparing for the SUSE Certified Linux Professional 12 Exam or the Linux Professional Institute LPIC-1 exams. The following topics are covered in this course:

- What Is SUSE Linux Enterprise?
- Work With the Command Line
- System Initialization
- Process Management
- Identity and Security
- Manage Software
- Network Management
- Storage Management
- Administration and Monitoring
- Hardware Management
Contact Information

- Homepage: [www.ibm.com/university/power](http://www.ibm.com/university/power)

- Job Board: [powersystemsjobs.com](http://powersystemsjobs.com)

- Power Systems
  - [IBM Power Systems Academic Initiative](http://www.ibm.com/university/power)
  - [Cognitive Courses](http://www.ibm.com/university/power)
  - [IBM Power Systems Academic Cloud](http://www.ibm.com/university/power)

- PSAI email: [powerskills@us.ibm.com](mailto:powerskills@us.ibm.com)