



# THE MADISON REGION: AN EDUCATIONAL HOTBED FOR INFORMATION TECHNOLOGY

The Madison Region is an educational hotbed for creative, skilled talent in the information technology industry. The region's vast network of higher education institutions and related partners that offer IT certificates and degree programs serves as a launching pad for IT professionals ready to fill positions with new and expanding technology companies.

## TALENT THAT DELIVERS A COMPETITIVE EDGE

In 2012, Madison Region higher education institutions graduated 823 eligible employees with degrees in Computer Information Science and Support Services. With 11 related degree-granting institutions located in or immediately adjacent to our eight counties, the region's IT companies enjoy a ready pipeline of talented workers.

### UNIVERSITY OF WISCONSIN - MADISON

UW-Madison's computer science program consistently ranks in the top ten computer science departments in the United States. Granting certificates, bachelor, and master degrees in computer science, the program is rooted in UW's long-standing leadership in research and buoyed by a commitment to teaching and inspiring technology-driven innovation with real-world application.

### UNIVERSITY OF WISCONSIN SYSTEM

In addition to the flagship Madison campus, the University of Wisconsin system offers computer science degrees at its Whitewater, Platteville, and Milwaukee campuses, all located within an hour's drive of the Madison Region.

### EDGEWOOD COLLEGE (MADISON)

This private four-year institution offers bachelor degree programs in computer information systems, web design and development, and computer science teaching. The school boasts 100% field placement of its computer information system students upon graduation.

## SECTOR67: COMMUNITY HACKERSPACE & CENTER FOR TECHNOLOGY

Sector67 is a nonprofit collaborative hackerspace/workspace providing individuals in the Madison Region a place to work with and learn about next generation technology. Sector67 provides 8,500+ square feet of workspace including electronics and computer labs and incubator space. Everyday members are writing code, creating apps, and developing software using tomorrow's technology. Explore at [sector67.org](http://sector67.org).

## LEARN MORE ABOUT INFORMATION TECHNOLOGY IN THE MADISON REGION

Contact Michael P. Gay,  
CEcD, Senior Vice President  
of Economic Development at  
Madison Region Economic  
Partnership (MadREP).

608.443.1953  
[michaelg@madisonregion.org](mailto:michaelg@madisonregion.org)  
[www.madisonregion.org](http://www.madisonregion.org)

*The Madison Region consists of  
Columbia, Dane, Dodge, Green,  
Iowa, Jefferson, Rock, and Sauk  
Counties.*



### **MADISON COLLEGE (MADISON)**

With a range of certificate programs and associates degrees in Systems Administration, Networking, Security, and Programming. Programming offerings include one of the first full associate degrees in Mobile Applications Development (Android & iPhone) in the state, as well as a cutting edge Web Software Development degree.

### **HERZING UNIVERSITY (MADISON)**

Herzing offers associate degree programs in information technology, computer networking and security technology, and software development. Bachelor degrees offered include information technology, software development, and technology management.

### **GLOBE UNIVERSITY (MADISON EAST, MADISON WEST)**

Globe University's information technology program covers the theories behind current information systems and computer technologies, while providing a hands-on learning environment. Certificates and degrees in information technology are available in software development, networking, security, web development, database design, mobile application development, and software application development.

### **BLACKHAWK TECHNICAL COLLEGE (JANESVILLE)**

Blackhawk Tech graduates are industry ready with associates degrees that include network specialist, web analyst/programmer, and systems security. Certificate programs include Java developer, Visual Basic.Net developer, web programming, database management, and computer hardware support.

### **MORAINE PARK TECHNICAL COLLEGE (BEAVER DAM)**

Several specializations are available within a two-year information technology degree, where students have the opportunity to learn programming languages such as C#, Java, Visual Basic, SQL, and CSS. Technical diploma and certificate programs include web designer/developer and information security.

### **SOUTHWEST WISCONSIN TECHNICAL COLLEGE (FENNIMORE)**

Southwest Tech provides associate degrees in graphic & web design, network communication, and web analyst/programmer. Students learn web programming and development using XHTML, JavaScript, PHP, Java, and Visual C++.

## **A TIGHT-KNIT TECH COMMUNITY**

In addition to the traditional learning that takes place in the Madison Region's higher education institutions, a robust network of professional organizations spur the ongoing learning of IT professionals and companies. Groups such as the Wisconsin Innovation Network, Accelerate Madison, and Madisonium bring together executives and entrepreneurs in the technology field to provide support, mentoring, and networking opportunities.

Growth in incubator and co-working spaces such as Sector67 (a hackerspace in Madison), Metro Innovation Center (part of University Research Park), Janesville Innovation Center, the Whitewater Innovation Center, and Whitewater Makerspace offer opportunities for start-up and small companies, and are already driving development of the region's technology sector.



## A STEADY SUPPLY OF INDUSTRY-READY WORKERS

### 2011-2012 DEGREES CONFERRED: COMPUTER INFORMATION SCIENCE & SUPPORT SERVICES

Institution	Certificate	Associate	Bachelor	Master	Doctor	Total
UW-Madison			98	67	14	179
UW-Milwaukee			129	12	1	142
UW-Platteville			25	1		26
UW-Whitewater			12			12
Blackhawk Technical College		39				39
Edgewood College			11			11
Globe University		8				8
Herzing University		28	37			65
Madison College	104	113				217
Moraine Park Technical College	44	47				91
Southwest Wisconsin Technical		33				33
<b>Total</b>	<b>148</b>	<b>268</b>	<b>312</b>	<b>80</b>	<b>15</b>	<b>823</b>

Source: National Center for Education Statistics

### PROGRAMMING LANGUAGES, MARKUP LANGUAGES AND FRAMEWORKS OFFERED

Institution	Offerings
UW-Madison	Java, C++, Matlab, Perl
UW-Milwaukee	Java, C, C++, HTML, CSS, JavaScript, ML, Prolog, Lisp, Cool, XML, XSLT, Matlab, FORTRAN
UW-Platteville	C++, Java, SQL, C#, VB.NET, Assembly, Scheme, Ruby, Ada Cobol
UW-Whitewater	Java Windows, Linux, C++ Linux, Javascript Windows, Linux, PHP Linux, Perl
Blackhawk Technical College	JavaScript, HTML/HTMLS, CSS/CSS3, Java, MySQL, jQuery, VB.NET, PHP, ASP.NET, Objective-C
Edgewood College	Java, SQL, MySql, JavaScript, JSP, ASP, PHP
Herzing University	C++, C, C#, Java, JavaScript, PHP, OpenGL, SQL, HTML, and XML
Madison College	ASP.NET, C, C#, Cocoa Touch, CSS, Drupal, HTML 5, Java, JavaScript, jQuery, Objective-C, PHP, PL/SQL, Ruby on Rails, PowerShell, Python, SQL, XML, XSLT, XSD

Sources: UW-Madison, UW-Whitewater, UW-Platteville, UW-Milwaukee, Edgewood College, Madison College, Herzing University, Blackhawk Technical College

Sources: MadREP's 2011 Competitive Assessment; National Center for Education Statistics; education institutions' websites