



Trends

In Occupational Studies

Top Job in 2014: How Can We Meet the Demand?

NORTHWEST DEVELOPER CONSORTIUM PROJECT
TRENDS IN OCCUPATIONAL STUDIES 2014

Northwest Developer Consortium

Introductions

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Today's Goal

- ▶ Career: Developer
- ▶ Review Demand and Opportunity
- ▶ Review History and Current State
- ▶ Present Apprenticeship Model
- ▶ Discuss Integration, Partnership, and Lessons Learned

Stakeholders and Participants

- ▶ Grand Rapids Community College
 - ▶ Kent and Allegan Michigan Works!
 - ▶ Kent Career Technical Center
- ▶ West Shore Community College
 - ▶ West Central Michigan Works!
- ▶ Northwestern Michigan College
 - ▶ Northwest Michigan Works!
- ▶ Workforce Development Agency, State of Michigan

The 100 Best Jobs



All jobs aren't created equal. In fact, some are simply better than the rest. U.S. News 100 Best Jobs of 2014 offer a mosaic of employment opportunity, good salary, manageable work-life balance and job security. Some careers offer just the

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Software Developer

★★★★★ (8.4 out of 10)

These professionals are the brains behind your Candy Crush obsession and Android phone dependency. They might be applications developers, who design computer software, databases and games, or they could be systems-focused developers, who are responsible for building operating systems. Growth for both types of IT professionals should balloon: The Bureau of Labor Statistics predicts there will be nearly 140,000 brand new positions created before 2022.

[Full Review](#) | [Salary Details](#) | [Available Jobs](#)



<http://money.usnews.com/careers/best-jobs/rankings/the-100-best-jobs>

Computer science and economics are top majors for getting job offers

latimes.com

By Shan Li

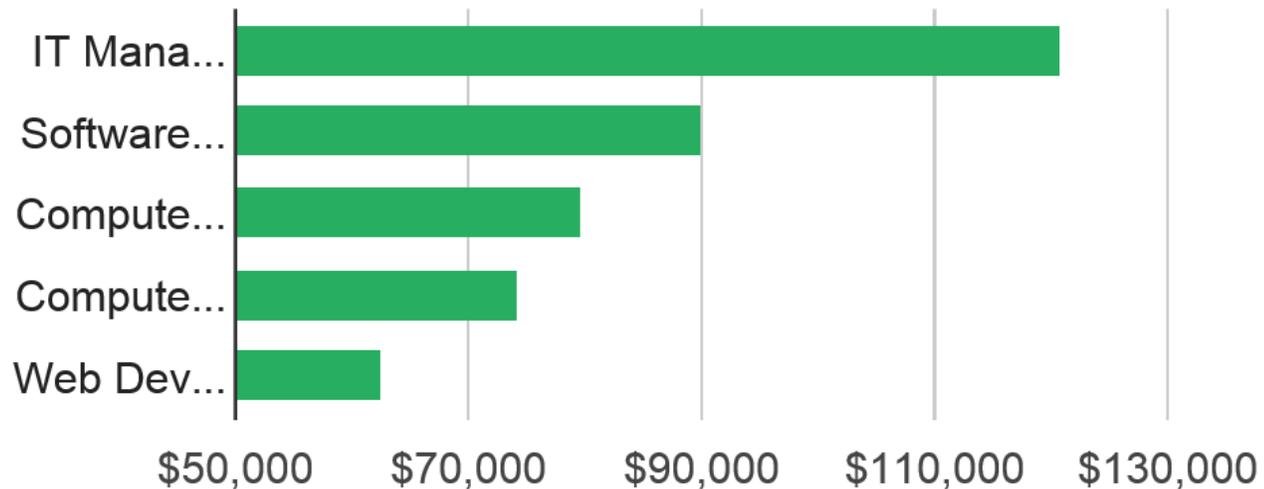
1:16 PM PST, January 22, 2014

Computer science and economics majors outrank all other majors when it comes to getting job offers before graduation, according to a recent report.

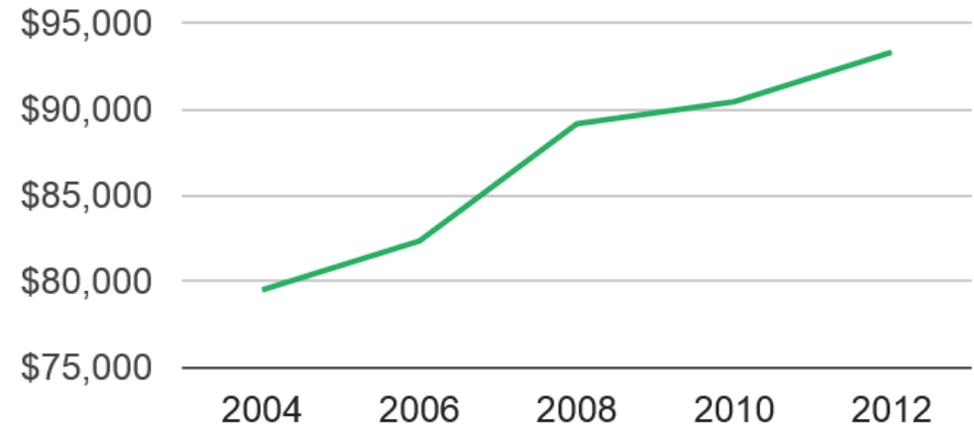
More than two-thirds of students who study computing received at least one offer before getting their diploma last year, according to a survey from the National Assn. of Colleges and Employers

Developer Salaries

A software developer's average salary, \$93,280, is higher than most other occupations on our list of the [Best Technology Jobs](#). Software developers make about \$9,500 more than [computer systems analysts](#), around \$15,000 more than [computer programmers](#) and approximately \$27,000 more than [Web developers](#). However, software developers make \$38,850 less than [IT managers](#).



Developer Salaries



Salary Outlook

The Labor Department reports that software developers made a median salary of \$90,060 in 2012. The highest-paid 10 percent in the profession earned \$138,880 in 2012, while the lowest-paid earned \$55,190. While the computer systems design industry and software publishers employ the highest number of software engineers, the highest-paid positions are spread far and wide across the country, with Sioux City, Iowa, Haverhill, Mass., and Newark, N.J., leading the way.

State Initiatives

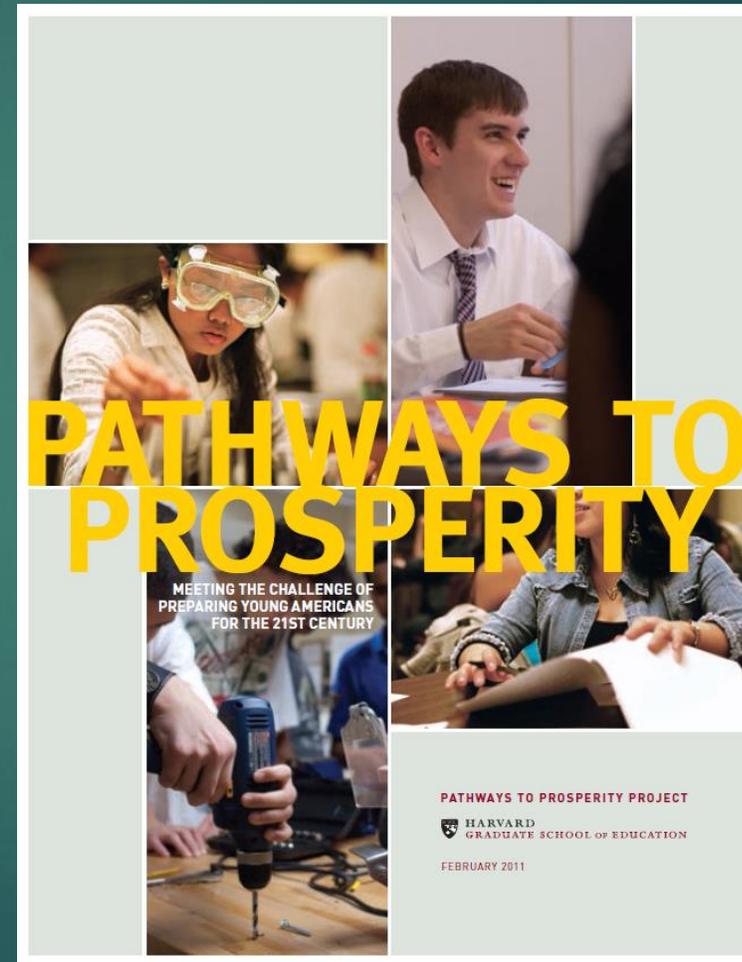
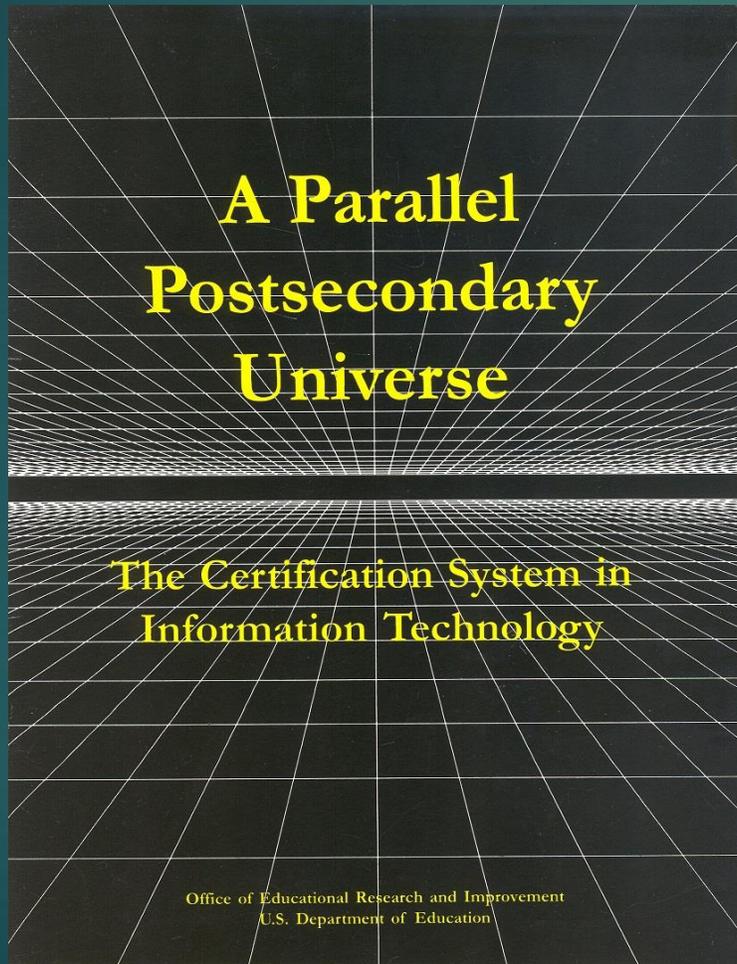
“Collaborate, Create and Connect”

- ▶ Michigan Industry Cluster Approach
- ▶ Shifting Code
- ▶ Prosperity Regions Talent Map
- ▶ Strategic Partnerships

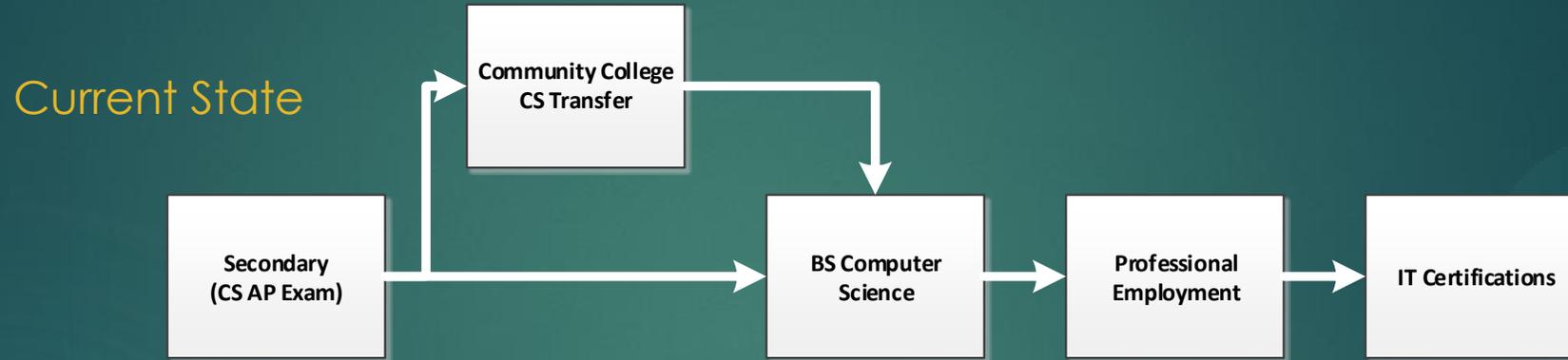


**Developer at
Northwestern Michigan College**

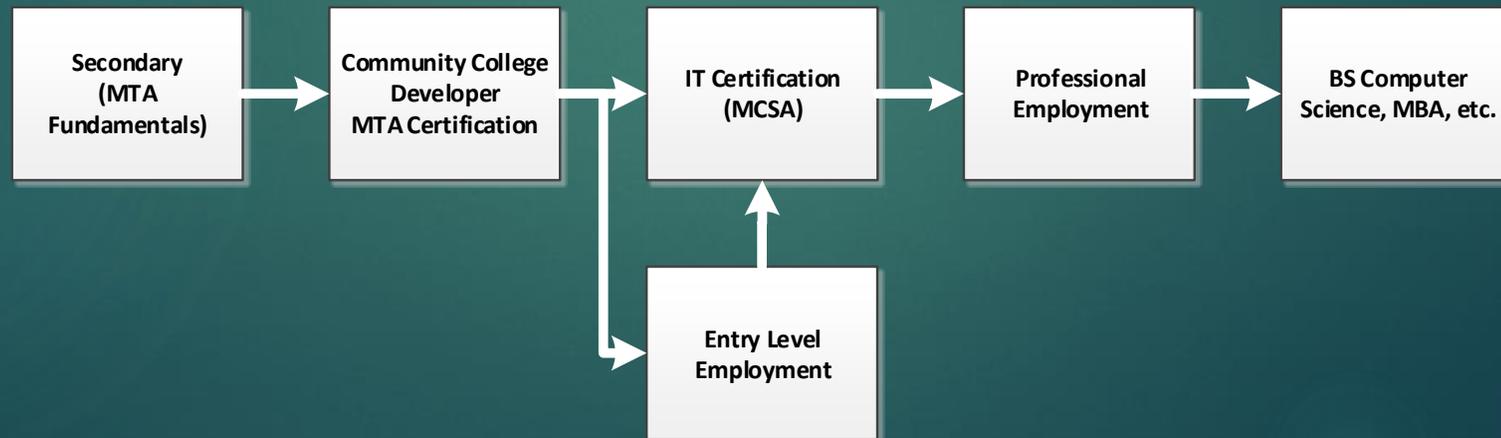
Developer at Northwestern Michigan College



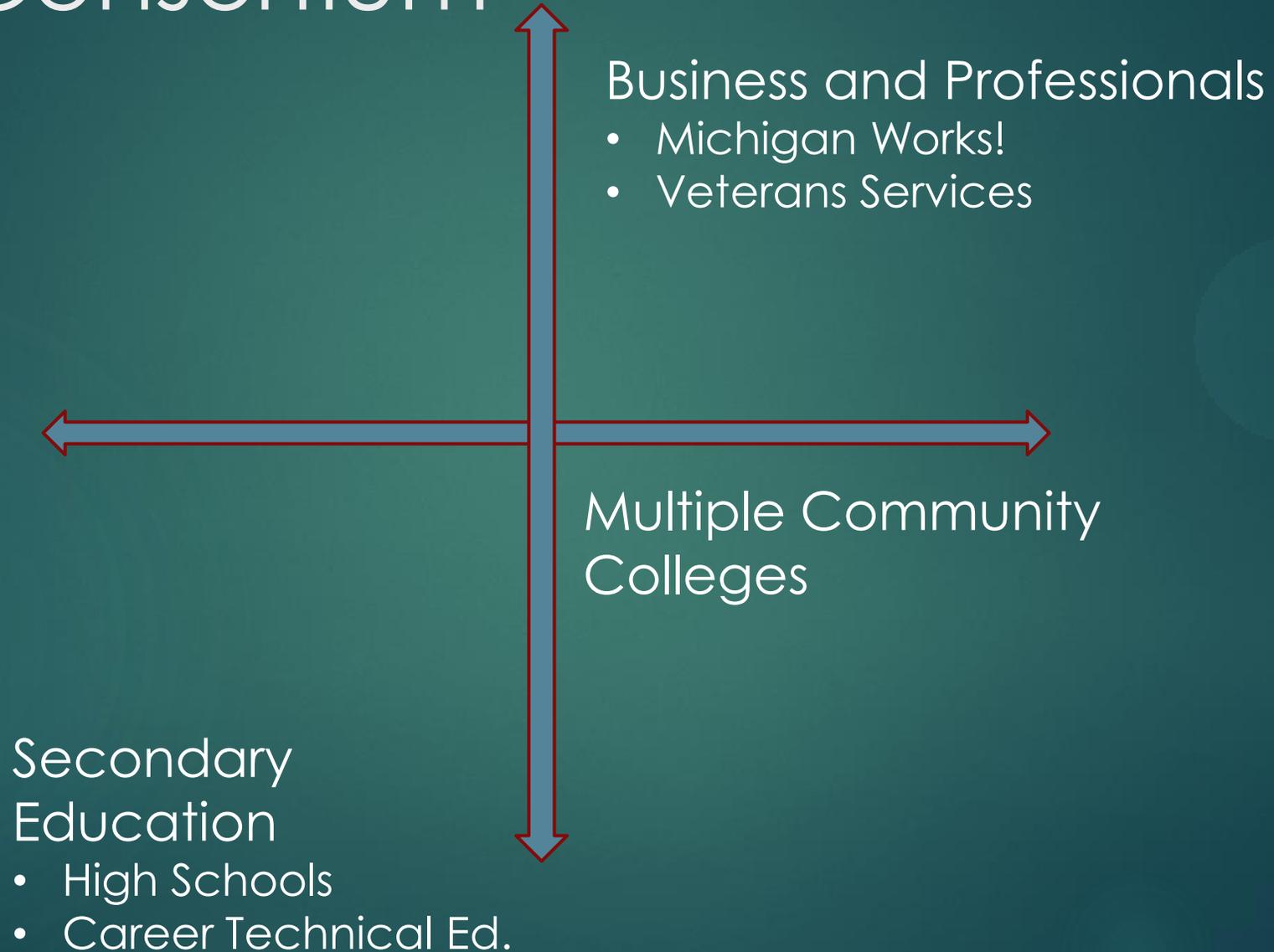
Computer Science vs. Developer



Future State



The Consortium



Employer Forum to Discuss

Training Qualified Software Developers

Thursday, November 21, 2013

8:00-10:00 AM

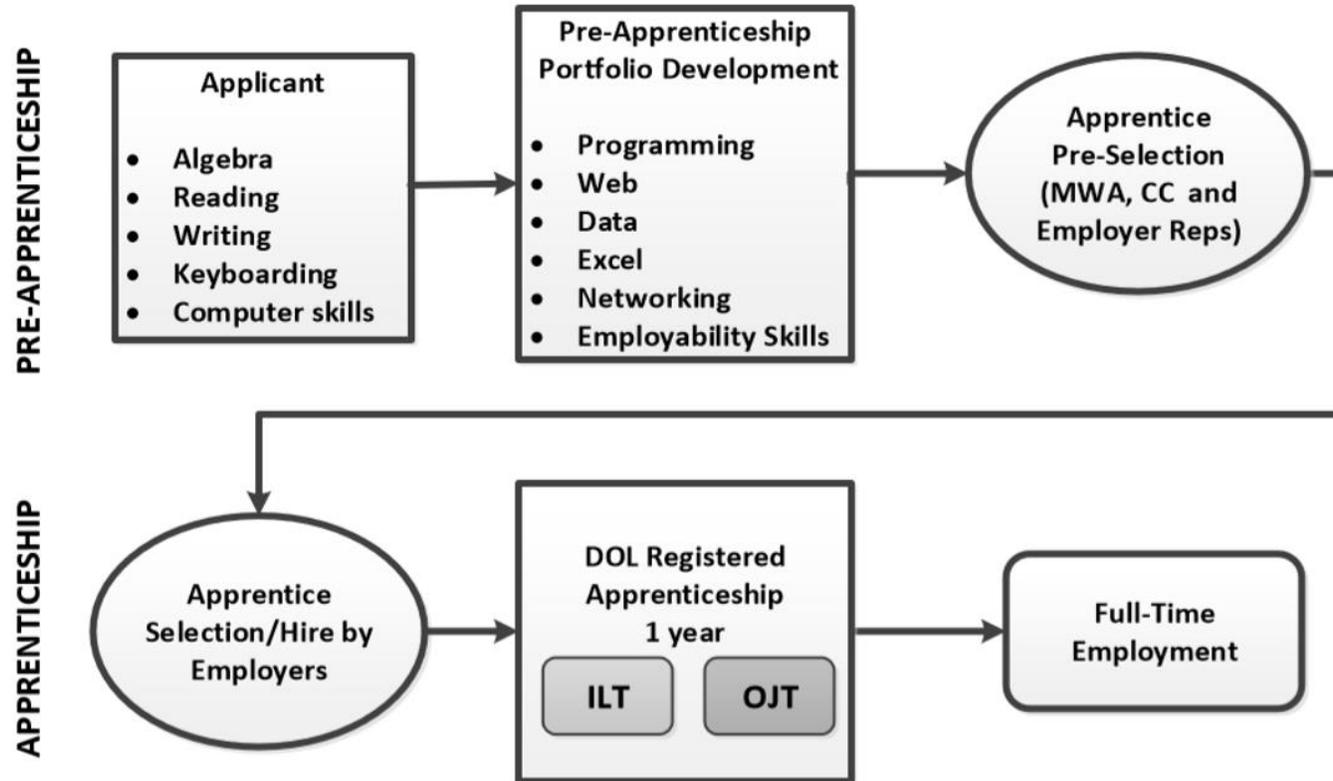
Traverse City Michigan Works!

1209 S. Garfield, Traverse City

Breakfast will be served; your RSVP is requested.



Software Developer Apprenticeship Program (S-DAP) DOL Registered Apprenticeship



NMC CIT Developer: S-DAP Pre-apprenticeship – 2015-2016

	Fall Semester	Spring Semester	Exit Cert	Portfolio Project Fall	Portfolio Project Sp
Programming	CIT110 Prog Logic & Design 3 cr	CIT195 .NET Application Programming 3 cr	MTA 98-361	Exam: Logic and Solution	Custom Application
Web	CIT180 HTML and CSS Programming 3 cr	CIT190 JavaScript Programming 3 cr	CIW SDA	Custom Website	Custom Website
Data	CIT178 Relational Databases 3 cr	CIT188 Data Sources 3 cr	MTA 98-364	Relational Design	Data Access Layer
Other IT	MOS: Microsoft Office Excel 2013 3 cr	CIT213 Networking Technologies 4 cr	MOS 77-420 MTA 98-366		

Software Developer Apprenticeship Program (S-DAP)

About the Software Developer Apprenticeship Program (S-DAP):

- Software Developers are in high demand in northern Michigan.
- The S-DAP gives students the opportunity to learn the skills they need.
- Year 1: Is spent in the classroom as a pre-apprentice.
- Year 2: Students compete for a limited number of apprenticeships with local employers and will spend 20 hrs/wk going to school and 20 hrs/wk working.
- Students are paid for the work hours.
- Employers cover the cost of student tuition.
- Students who complete the program will have earned credentials from the Department of Labor and Northwestern Michigan College, and will be qualified to move into a full-time position with the employer.



**Learn More at the
Pre-Apprentice Event!**

**Thursday, Sept. 25, 2014
5-6 p.m.**

**NMC Main Campus, 1701 E. Front
James Beckett Building, Room JB140**

Next Steps At NMC

- ▶ Finalize NMC CIT Certifications
- ▶ Build Portfolio Template and Train
- ▶ Continue Marketing to Students and Employers
- ▶ Create Apprenticeship Selection Process
- ▶ Assist Partner Colleges
- ▶ Promote Apprenticeships in IT



**Developer at
West Shore Community College**

West Shore Community College

- ▶ An unlikely partner?
- ▶ History
- ▶ Current Program Offerings
- ▶ Secondary Connection

West Shore Community College

- ▶ Review the current program offerings
- ▶ Align courses to NMC's program
- ▶ Work with Student Services Dean to create new program
- ▶ Present new courses and new program to Curriculum Council
 - ▶ Timing is a factor
- ▶ Preparing faculty
 - ▶ Vouchers
 - ▶ Course offerings
 - ▶ Identify new faculty



**Developer at
Grand Rapids Community College**

Information Technology Opportunities

Grand Rapids Community College

- ▶ West Michigan area has a growing IT presence
- ▶ Employers looking for talent in local user groups and events
- ▶ Our goal is to bring secondary education, higher education, and the IT community together as partners
- ▶ Secondary education benefits by getting students interested in careers sooner so they are more motivated to succeed
- ▶ Higher education benefits by attracting students and employers, which enhances what we can offer to the community
- ▶ Employers benefit by more directly influencing educational institutions to better prepare students for the workforce

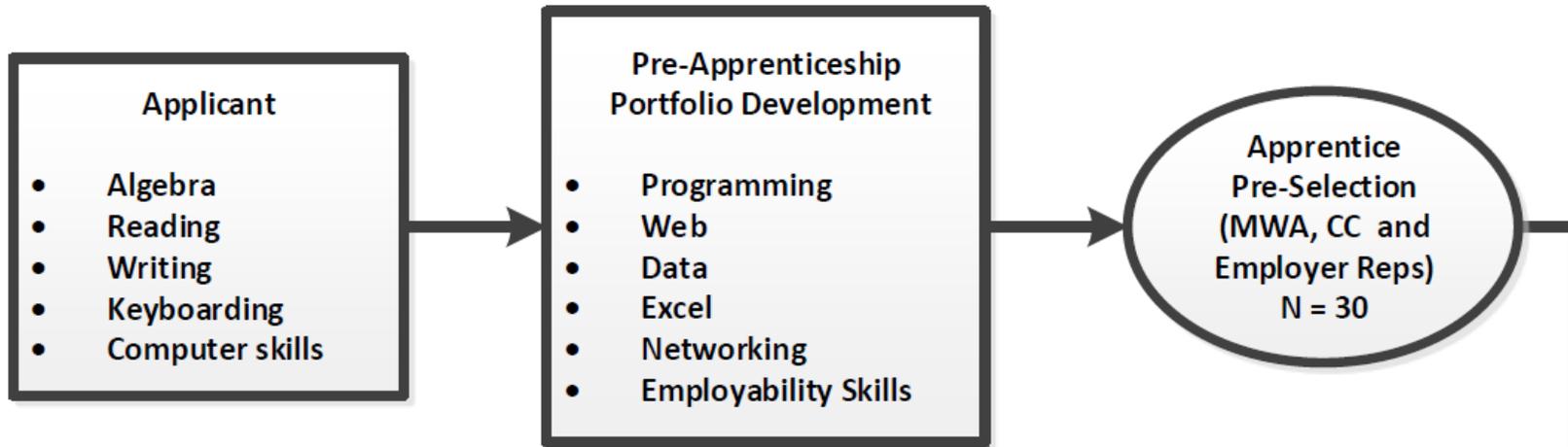
Academic Programs

Grand Rapids Community College

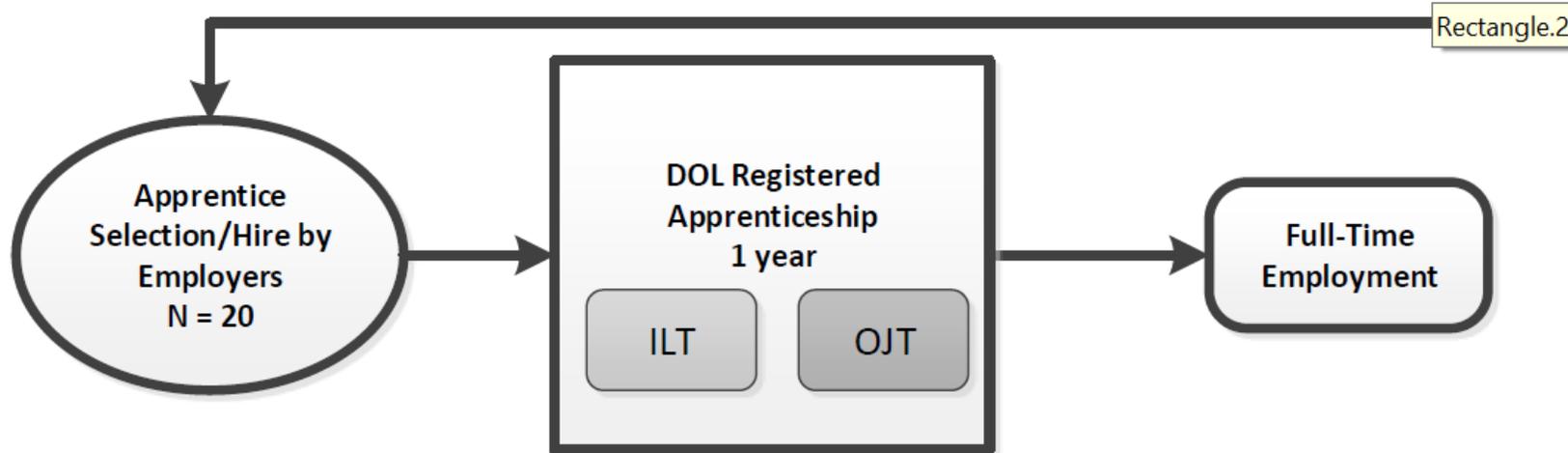
- ▶ Computer Support Specialist
- ▶ Web and Graphics Development
- ▶ Database Administration
- ▶ Network Administration
- ▶ Information Security
- ▶ Software Development
- ▶ Health Care Technology

Developer Consortium DOL Registered Apprenticeship

PRE-APPRENTICESHIP



APPRENTICESHIP



Next Steps At GRCC

- ▶ Identify credentialing needs that local employers want in a pre-apprenticeship program
- ▶ Develop new courses if we see areas not addressed
- ▶ Develop one-year pre-apprenticeship program alongside KCTC with kickoff targeted for Fall 2014
- ▶ Determine pre-apprenticeship to apprenticeship selection process and develop infrastructure
- ▶ Obtain employer commitment for Apprenticeships with kickoff targeted for Fall 2015
- ▶ Build Apprenticeship program with employer participation

Q and A, Discussion

