



## Cisco Networking Academy: Texas Profile

Cisco® Networking Academy® is playing a critical role in the U.S. economic recovery by preparing students for the sustainable jobs that government, education and industry all agree will fuel America's ability to innovate and compete, not just today but in the future. As the focus turns to infrastructure, Networking Academy provides students with critical IT and networking skills to design, build, and maintain the infrastructure highway that both the public and private sector now depend on for sustainability.

The new Obama administration clearly recognizes the importance that technology plays in preparing students to compete in a 21<sup>st</sup> century global economy. In a speech on January 8, 2009, at Virginia's George Mason University, President Obama highlighted the current science and technology skills gap in the United States and the urgent need to address it:

“To give our children the chance to live out their dreams in a world that’s never been more competitive, we will equip tens of thousands of schools, community colleges, and public universities with 21<sup>st</sup> century classrooms, labs, and libraries. We’ll provide new computers, new technology, and new training for teachers, so that students in Chicago and Boston can compete with kids in Beijing for the high-tech, high-wage jobs of the future.”

Cisco Networking Academy is a proven model for delivering 21<sup>st</sup> century learning because it delivers:

- rigorous and interactive curricula licensed at no cost to nonprofit educational institutions
- an e-learning platform that supports different learning styles
- web-based content available to students 24/7
- online assessments
- student performance tracking
- hands-on labs
- instructor training and support

Networking Academy is a unique public-private partnership between educational institutions, national, state and local government, and community-based organizations, currently educating more than 128,000 students in over 2,200 U.S. educational institutions.

As an education solution, Networking Academy encourages seamless educational pathways between secondary and post-secondary institutions by using curricula aligned to national and state education standards for math, language arts, and technology and industry certifications. These courses also help students prepare to pursue degrees related to science, technology, engineering, and math (STEM). Networking Academy courses provide instructors with tools to help students make the connection between their educational experience and their careers. In the United States, academies are located in high schools, technical schools, colleges, universities, and community-based organizations.

Cisco Networking Academy provides:

- IT and networking skills mapped to high-skill, high-demand, high-wage 21<sup>st</sup> century jobs across virtually every industry
- sustainable partnerships at all levels of education, including community colleges at the forefront of workforce development and retraining

- strong alignment with high school career and technical education programs that build technical skills and create pathways for high school graduates going either directly into the workforce or on to post-secondary education
- the skilled pipeline of talent required to design, build and maintain the infrastructure needed for economic recovery

Included in each state profile are Networking Academy statistics, IT workforce projections, and student/graduate stories. These state-by-state profiles will provide you with important information about the value Cisco brings to government, education and business through delivery of IT/networking skills and knowledge. Cisco Networking Academy educates the architects of today's networked economy.

Profiles are updated annually with core content, and we will continue to add student/graduate profiles. For your convenience, the library of profiles for each state, plus the District of Columbia and the United States as a whole, are accessible at <http://www.cisco.com/go/netacadresourcecenter>.

We welcome your suggestions for future profiles. Please send any questions and feedback to our U.S. Marketing Team via Nancy Bischoff at [nbischof@cisco.com](mailto:nbischof@cisco.com).

## Learn More

Table 1 lists data about academies in Texas. Table 2 lists information about Networking Academy curricula in Texas, and Table 3 shows information by student education level.

For additional information about Cisco Networking Academy, visit <http://www.cisco.com/go/netacad>

**Table 1.** Cisco Networking Academy in Texas

<b>Networking Academy students</b>	11,054
<b>Female Networking Academy students</b>	15% female
<b>Distinct cumulative academy students (having successfully completed a course)</b>	50,557
<b>Academies</b>	173
<b>Academy instructors</b>	309
<b>Total estimated cumulative contribution value to Texas academies*</b>	\$27,854,183

Sources: AME/MRE FULL Package\_10 31 08 Quarterly Metrics Date: Nov 13, 2008

Cumulative students are distinct; therefore, each student is only counted once.

\*This estimate includes donations and discounts made to educational institutions implementing Cisco Networking Academy within Texas.

\*Sources: AME/MRE report #3616student and instructor enrollment by year 2008.11.24\_JBZ\_v8.xls

**Table 2.** Networking Academy Curricula in Texas

Curriculum	All	ITE	CCNA 1, 2	CCNA 3, 4	Advanced Technologies and Other*
<b>Number of academies by curriculum</b>	173	47%	83%	47%	16%

The above curricula represent the core Networking Academy curricula.

\*Includes CCNP, Security, Wireless, Java, UNIX and Panduit Network Infrastructure Essentials (PNIE)

Academies often teach multiple curricula and may be counted more than once in this table.

Source: AME/MRE rpt #3651 as of 10.31.08 v2 Date: Dec 8, 2008

**Table 3. Texas Academies and Students by Education Level**

Education Level	Total Number	Secondary Schools	Community Colleges	Universities	Other
<b>Texas Students*</b>	11,054	46%	50%	5%	0%
<b>Texas Academies*</b>	173	61%	33%	5%	1%

Sources: AME/MRE FULL Package\_10 31 08 Quarterly Metrics Date: Nov 13, 2008

\*For academies that self identify as more than one education level, the academies and students in this table are distributed proportionately across the education levels.

Academies represented in "Other" category include the following: community-based organizations, middle schools, the military, nontraditional educational settings, and post-graduate institutions.



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## Active Cisco Networking Academies in Texas U.S. Congressional District Database

Data for this report was gathered using the U.S. Congressional District Database. This tool was developed to communicate with congressional representatives about Cisco Networking Academy implementation in their home districts. The database maps active academies by congressional district or by all districts within a state, providing academy name, city, state, and congressional district. The listing by state is updated annually.

Table 4 lists information about academies in Texas congressional districts.

**Table 4.** Networking Academies in Texas Congressional Districts

Number of Texas Congressional Districts	Number of Texas Congressional Districts <u>with</u> Networking Academies	Number of Texas Congressional Districts <u>without</u> Networking Academies	% Texas Congressional District Penetration
32	32	0	100%

Academies listed here have taught a class with at least three students, or adopted a new curriculum, within the last twelve months

Source: MRE/Academy Connection, U.S. Congressional District Database Date: October 31, 2008

### Active Texas Cisco Networking Academies by Congressional District

\* Indicates Cisco Networking Academy Training Center

Academies listed here have taught a class with at least three students, or adopted a new curriculum, within the last twelve months

Source: MRE/Academy Connection, U.S. Congressional District Database Date: October 31, 2008

#### Congressional District 1

- Angelina College (Lufkin)
- \*Kilgore College (Kilgore)
- Tenaha ISD (Tenaha)
- Tyler Junior College (Tyler)

#### Congressional District 2

- Humble ISD Career and Technology Education Center (Humble)
- Klein Forest High School (Houston)
- Klein High School (Klein)
- Lamar Institute of Technology (Beaumont)
- \*Lamar State College - Port Arthur (Port Arthur)
- North Harris College (Houston)
- Spring ISD Wunsche HS Academy (Spring)

#### Congressional District 3

- CCCCD Preston Ridge (Frisco)
- \*Collin County Community College District (Frisco)

- Frisco ISD (Frisco)
- McKinney High School (McKinney)
- North Garland High (Garland)
- Plano ISD (Plano)
- \*Richland College (Dallas)
- RLC CTI (Dallas)
- Westwood College Dallas DLD (ACC) (Dallas)

#### **Congressional District 4**

- Allen ISD (Allen)
- CCCCD Central Park (McKinney)
- Commerce High School (Commerce)
- Grayson County Community College (Denison)
- McKinney High School North (McKinney)
- Paris Junior College Cisco Training Academy (Paris)
- Texarkana College Cisco Academy (Texarkana)
- \*Texas A&M University Commerce (Commerce)
- Texas High School (Texarkana)
- Whitesboro High School (Whitesboro)
- Wolfe City High School (Wolfe City)

#### **Congressional District 5**

- Forney High School (Forney)
- Wills Point Cisco Academy (Wills Point)

#### **Congressional District 6**

- Arlington – Sam Houston High School (Arlington)
- Midlothian High School (Midlothian)
- Tarrant County College, Southeast (Arlington)

#### **Congressional District 7**

- Cisco Academy At Cy-Fair H.S. (Cypress)
- Cypress Creek Cisco Networking Academy (Houston)
- The Guthrie Center (Houston)
- Westside High School (Houston)

#### **Congressional District 8**

- \*Education Service Center, Region 6 (Huntsville)
- Kingwood College Cisco Local Academy (Kingwood)

- Lamar State College - Orange (Orange)
- Oakridge Cisco Academy (Conroe)
- The Woodlands High Schools (The Woodlands)
- Trinity ISD (Trinity)
- Willis ISD (Willis)

**Congressional District 9**

- Westwood College-Houston HNS (ACC) (Houston)

**Congressional District 10**

- Brazos ISD Cisco Academy (Wallis)
- Cy-Fair College (Cypress)
- Cypress Springs High School (Cypress)
- Giddings ISD (Giddings)
- Klein Oak High School (Spring)
- Lanier High School (Austin)
- Miller CTC Cisco Academy (Katy)
- \*Tomball College Regional Academy (Tomball)

**Congressional District 11**

- Burnet High School (Burnet)
- Howard College/San Angelo ISD (San Angelo)
- Klondike High School (Lamesa)
- Lamesa ISD (Lamesa)
- Midland College (Midland)

**Congressional District 12**

- Boswell High School (Fort Worth)
- Brewer High (Fort Worth)
- Carter-Riverside High School (Fort Worth)
- Central HS (Keller)
- \*Education Service Center 11 (Fort Worth)
- Weatherford College (Weatherford)
- Weatherford ISD (Weatherford)
- Westwood College North Richland Hills DLF (ACC) (Fort Worth)

**Congressional District 13**

- AACAL (Amarillo)

- Amarillo College (Amarillo)
- Canyon ISD-Randall (Amarillo)
- Cisco Academy Vernon Campus (Vernon)
- Frank Phillips College Academy (Borger)
- Guthrie Consolidated School District (Guthrie)
- Munday ISD (Munday)
- Stratford High School - Stratford ISD (Stratford)
- VC Century City Academy (Wichita Falls)
- \*Vernon College (Wichita Falls)
- Vernon High School (Vernon)

**Congressional District 14**

- Career Development School - VISD (Victoria)
- Edna ISD (Edna)
- Rockport-Fulton H.S. (Rockport)
- \*The Victoria College (Victoria)

**Congressional District 15**

- Coastal Bend College (Beeville)
- Taft ISD (Taft)

**Congressional District 16**

- Americas High School (El Paso)
- EPCC Valle Verde Campus (El Paso)
- Hanks High School (El Paso)
- San Elizario ISD (San Elizario)
- University of Texas At El Paso (El Paso)
- Western Technical College (ACC) (El Paso)

**Congressional District 17**

- Bryan Cisco Academy (Bryan)
- Burleson ISD (Burleson)
- McLennan Community College (Waco)
- \*Texas State Technical College, Waco (Waco)

**Congressional District 18**

- Barbara Jordan High School For Careers Cisco Network (Houston)
- Houston Community College (Houston)
- Jefferson Davis High School (Houston)

- Nimitz Sr. High School (Houston)
- Texas Southern University (Houston)
- Wheatley HS Center for Technology (Houston)

#### **Congressional District 19**

- Abilene Christian University (Abilene)
- Amherst Independent School District (Amherst)
- Frenship Independent School District (Wolfforth)
- Hale Center Independent School District (Hale Center)
- Littlefield Independent School District (Littlefield)
- Plains Independent School District (Plains)
- Seminole Independent School District (Seminole)
- Shallowater ISD (Shallowater)
- South Plains College (Levelland)
- Sudan Independent School District (Sudan)
- West Texas (Abilene)

#### **Congressional District 20**

- Alamo Community College District On Behalf of St. Phillip's College (San Antonio)
- Business Careers High School (San Antonio)

#### **Congressional District 21**

- Alamo Community College District On Behalf of St. (San Antonio)
- New Braunfels High (New Braunfels)

#### **Congressional District 22**

- Houston Community College Southwest Cisco Academy (Stafford)
- Pasadena ISD LP Card Career and Technical Center (Pasadena)
- San Jacinto Community College Central Campus (Pasadena)
- WCJC Cisco Academy (Richmond)

#### **Congressional District 23**

- Alamo Community College District On Behalf of Palo Alto College (San Antonio)
- Balmorhea ISD (Balmorhea)
- Carrizo Springs ISD (Carrizo Springs)
- Crockett County CISD (Ozona)

#### **Congressional District 24**

- Academy of Irving ISD (Irving)

- Brookhaven College (Farmers Branch)
- Grapevine-Colleyville CHHS (Grapevine)
- Grapevine-Colleyville GHS (Grapevine)
- North Lake College (Irving)

**Congressional District 25**

- Austin Community College (Austin)
- Akins Cisco Academy (Austin)
- La Grange High (La Grange)
- San Marcos High (San Marcos)

**Congressional District 26**

- Advanced Technology Complex (Denton)
- Birdville High School (North Richland Hills)
- DeVry University, Dallas (ACC) (Irving)
- Lewisville ISD (Lewisville)
- North Central Texas College (Gainesville)
- Northwest ISD (Justin)
- Richland High School - Birdville ISD (North Richland Hills)
- Tarrant County College, Northeast (Hurst)
- Tarrant County College, South Campus (Fort Worth)

**Congressional District 27**

- Carroll HS (CCISD) (Corpus Christi)
- \*Del Mar College (Corpus Christi)
- Dr. Maria Luisa Garza-Gonzales Charter School (Corpus Christi)
- Flour Bluff ISD (Corpus Christi)
- King HS (CCISD) (Corpus Christi)
- Moody HS (CCISD) (Corpus Christi)
- Ray HS (CCISD) (Corpus Christi)
- Tuloso-Midway ISD (Corpus Christi)
- West Oso ISD (Corpus Christi)

**Congressional District 28**

- La Vernia ISD (La Vernia)
- Laredo Community College (Laredo)
- South Texas College (McAllen)
- United South High School (Laredo)

### Congressional District 29

- Cesar Chavez High School (Houston)
- Lee College Cisco Local Academy (Baytown)
- San Jacinto College North (Houston)

### Congressional District 30

- A. Maceo Smith High School (Dallas)
- Business Management Center (Dallas)
- Carter High School (Dallas)
- \*Dallas ISD - Skyline High School (Dallas)
- El Centro College (Dallas)
- Kimball High School (Dallas)
- Madison High School (Dallas)
- South Oak Cliff High School (Dallas)
- Spruce High School (Dallas)

### Congressional District 31

- Cedar Park High (Cedar Park)
- Central Texas College (Killeen)
- Stephenville ISD Cisco Academy (Stephenville)
- Tarleton State University Cisco Networking Academy (Stephenville)

### Congressional District 32

- DeVry University (ACC) (Richardson)
- Mountain View College (Dallas)
- W.T. White High School (Dallas)



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## Cisco Networking Academy: Workforce Development in Texas

Cisco® Networking Academy® is ready to help U.S. workers learn critical IT and networking skills through academies located in high schools, community colleges, four-year colleges, and nontraditional settings. Developing in-demand technical skills in a timely, focused program enables students to quickly find and retain sustainable, high-paying jobs. Academy courses map to industry certifications and prepare students for technical jobs in a new, improved technical infrastructure across the nation. Even students who complete introductory courses will be prepared to work for companies that depend on a technical infrastructure for business sustainability.

“Obama’s pro-tech agenda could increase the number of technology jobs in the United States by 10 percent, adding about 300,000 high-paying IT positions.” –Katherine McGuire, VP of government relations, Business Software Alliance <sup>1</sup>

“Even with this economic downturn, the jobs outlook in IT for 2009 is better than that of many other industries, since IT is no longer at the peripheral of industries but at the core of their competitive edge, and IT will play a critical role in the infrastructure build out.” –David Foote, CEO of Foote Partners LLC, which analyzes IT wages and hiring data <sup>1</sup>

As the U.S. remains focused on economic recovery throughout 2009, there is a growing emphasis on upgrading the educational infrastructure to deliver the required knowledge and skills to build the needed technical workforce to support and maintain technology infrastructure assets and requirements. Just as the interstate highway investment created millions of construction jobs, which were then followed by maintenance and automotive jobs in the long term, so technology investments will initially create jobs necessary to design and deploy technology infrastructure, and these jobs will be followed by an array of new business opportunities.

“Investments in America’s digital infrastructure will spur significant job creation in the immediate term. An investment of \$40 billion in IT network infrastructure in 2009 will create more than 949,000 U.S. jobs, more than half of which will be in small businesses.” –Technology CEO Council press release <sup>2</sup>

Cisco Networking Academy addresses the need for 21<sup>st</sup> century teaching and learning models that prepare students to move into the pipeline of talent needed to fill these high-skill, high-wage, high-demand careers.

"We will enable students of all ages to learn in 21<sup>st</sup> century classrooms, labs, and libraries, to help our students compete with any worker in the world." –American Recovery and Reinvestment Plan press release <sup>3</sup>

In a recent report, the Information Technology and Innovation Foundation “finds that investments in America’s digital infrastructure will spur significant job creation in the short run. Specifically, ITIF estimates that an additional investment of \$30 billion in America’s IT network infrastructure in 2009 will create approximately 949,000 U.S. jobs.” <sup>4</sup>

<sup>1</sup> Computerworld, 1/5/09, *Stimulus could create thousands of IT jobs*, <http://www.computerworld.com/action/article.do?command=viewArticleBasic&articleId=331783>

<sup>2</sup> Technology CEO Council, Wash. D.C. 1/29/09, [http://www.techceocouncil.org/index.php?option=com\\_content&task=blogsection&id=8&Itemid=159](http://www.techceocouncil.org/index.php?option=com_content&task=blogsection&id=8&Itemid=159)

<sup>3</sup> American Recovery and Reinvestment Plan press release, 1/16/09, <http://appropriations.house.gov/pdf/PressSummary01-15-09.pdf>

<sup>4</sup> ITIF, 1/7/09, *The Digital Road to Recovery: A Stimulus Plan to Create Jobs, Boost Productivity and Revitalize America*, <http://www.itif.org/index.php?id=212>

### IT Occupational Data

Table 5 lists information about IT-related occupations in the United States, and Table 6 lists this information for Texas.

**Table 5. Selected IT-Related Occupations in the United States**

Occupation	Employment		Employment Change		Average Annual Openings	Occupational Employment as of May 2007*
	2006	2016	Numeric	Percent		
Computer Support Specialists	552,000	624,000	71,000	21.9	24,000	525,570
Computer Systems Analysts	504,000	650,000	146,000	29	28,000	446,440
Network and Computer Systems Administrators	309,000	393,000	83,000	27	15,000	309,660
Network Systems and Data Communications Analysts	262,000	402,000	140,000	53.4	19,000	216,050
Computer and Information Systems Managers	264,000	307,000	43,000	16.4	9,000	264,990

U.S. Department of Labor, Bureau of Labor Statistics, <http://www.projectionscentral.com>, based on data availability as of October 31, 2008

\*U.S. Department of Labor, Bureau of Labor Statistics, May 2007 State Occupational Employment and Wage Estimates (US), <http://stat.bls.gov/oes/current/oesrcst.htm>

**Table 6. Selected IT-Related Occupations in Texas**

Occupation	Employment		Employment Change		Average Annual Openings	Occupational Employment as of May 2007^
	2006	2016	Numeric	Percent		
Computer Support Specialists	42,950	51,600	8650	20.1	2190	44,170
Computer Systems Analysts	43,850	59,600	15,750	35.9	2740	43,090
Network and Computer Systems Administrators	25,250	33,650	8400	33.3	1415	25,130
Network Systems and Data Communications Analysts	17,750	27,600	9850	55.5	1345	14,640
Computer and Information Systems Managers	15,850	19,250	3400	21.5	595	16,760

Source: Email from Robert Crawley, Economist, [Robert.Crawley@twc.state.tx.us](mailto:Robert.Crawley@twc.state.tx.us), Texas Workforce Commission, Telephone: (512) 491-4808, Internet: <http://www.texasworkforce.org>

^ U.S. Department of Labor, Bureau of Labor Statistics, May 2007 State Occupational Employment and Wage Estimates (by state), <http://stat.bls.gov/oes/current/oesrcst.htm>



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## Texas Student and Graduate Profile

When Lelia Warner was suddenly on her own, raising three junior high and high school children, she had no idea what the future would hold. Deciding she needed more tools in her tool kit, Lelia enrolled at Victoria College in Victoria, Texas, in 2006. Although she had no specific direction in mind, Lelia decided to take an introductory networking class and soon discovered she took to networking “like a duck to water.” She subsequently enrolled in the Cisco® Networking Academy® and today, is successfully employed as the network specialist for Fort Bend County Libraries.

Lelia has overcome her share of challenges both inside and outside the classroom. In addition to working a full-time job, going to school, and single-handedly running a household while raising teenagers, Lelia had to overcome the challenge of being one of only a handful of women in the academy, and the only older woman returning to school.

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**“It was difficult breaking into the networking field as a middle-aged woman” says Lelia, but she is now confident that “with this experience under my belt I can go anywhere and obtain any job.” Plus, having surprised herself with her achievements, Lelia now enjoys surprising others and seeing their reaction when they learn she is the networking administrator.**

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Lelia recalls a day when she walked into the classroom and discovered a male classmate had already cabled her router for her. When Lelia asked him why, he replied “Well, because you’re a girl!” Determined to maximize her learning experience and do it on her own, Lelia made it clear that she would not be requiring any help. She followed that up with being the first one to scramble up the ladder to pull wires through the ceiling, and soon the rest of the class became entwined in friendly competitions that made the class even more fun.

In retrospect, Lelia recalls feeling intimidated by a classroom full of men, but her drive to learn the material and determination to face her fears got her through. Having demonstrated she was a force to be reckoned with, Lelia continued to work hard, earned an associate of science degree and an associate of applied science network administration degree, and then transferred to the University of Houston at Victoria where she earned her bachelor of science degree in computer science, information systems.

Then came the challenge of job interviews. Lelia had interviewed for various positions and, even though she was qualified, it took her almost one year to secure her current position. She remembers all too well sitting across from inattentive male interviewers who were not about to give a newly-minted, middle-aged, female graduate a break in a male dominated industry. She persisted, and is now working at a company which runs its network on Cisco equipment where she says she feels right at home.

Lelia attributes a large part of her success to the labs and to her Networking Academy instructor. Says Lelia: “Sharon Wagner was very encouraging and made the course fun. We played Jeopardy against each other to instill knowledge of terms and protocols and she held competitions to see who could get their network up and running first. Sharon was able to create an environment where students could learn through trial and error, giving instructions and turning the students loose, but always there to help students learn through their mistakes. She even allowed the students to perform the upgrade for the academy lab equipment.” Lelia enjoyed the hands-on experience of being able to actually configure a network



from scratch and the satisfaction of watching it come up and “talk” across the wires. She also enjoyed surprising herself by what she was able to accomplish.

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As Network Specialist at the Fort Bend County Libraries, Leila is in charge of the network, routing, switching, servers, firewall, and security for all eight library branches. “I have been involved in configuring and bringing up two new voice over IP switches in the network and I have also been involved in adding network modules and configuring existing routers in order to bring up new T1 lines to existing library branches. We will be adding two more library branches onto the network within the next two years and that is an exciting adventure on the horizon.”

With the library expansion and the possibilities that her college degree and networking knowledge and experience have created for her, Lelia is excited about future opportunities. “It was difficult breaking into the networking field as a middle-aged woman,” says Lelia, but she is now confident that “with this experience under my belt I can go anywhere and obtain any job.” Plus, having surprised herself with her achievements, Lelia now enjoys surprising others and seeing their reaction when they learn she is the networking administrator.

Outside of technology, Lelia enjoys traveling, fishing, camping, and sewing. Her children are now grown and on their own and extremely proud of their mother. Her advice to others who may be interested in the Networking Academy is, “Go for it. ... If you have an analytical mind, enjoy command line type of computing, and can ‘see’ the big picture as far as being able to picture a network and analyze what is happening, then success will abound in the Networking Academy.”

Lelia also hopes to encourage and inspire other women with her story and offers women an additional piece of advice: “If your goal is to be out there with the guys, then you can’t accept help. ... There are ways to carry equipment that use leverage rather than brute strength ... and women can learn to use tools!”

To learn more about the Networking Academy at Victoria College, go to: <http://www.victoriacollege.edu/workforce/cis/>



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