

Minnesota's P-20 Statewide Longitudinal Education Data System (SLEDS)

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What is the vision of SLEDS?

The SLEDS project is being created to assist in identifying the most viable pathways for individuals in achieving successful outcomes in education and work.

The SLEDS data system will enable research to:

- ✓ Identify predictors of long-term student success
- ✓ Design targeted improvement strategies in programs
- ✓ Improve data driven decision making
- ✓ Meet federal funding requirements

What data will be included?

Minnesota Department of Education (MDE)

- **K-12 Enrollment**
- **K-12 Assessment**
- **ACT (Explore, Plan, College Entrance)**
- Advanced Placement Results
- **Adult Basic Education**
- Kindergarten Readiness
- Early Childhood Enrollment
- Career and Technical Education

Minnesota Office of Higher Education (OHE)

- **Post-Secondary Enrollment**
- Post-Secondary Completions
- **Institutional Characteristics**

Minnesota Department of Employment and Economic Development (DEED)

- **Unemployment Insurance Wage Detail Records**
- **Employer Detail (including NAICS info)**
- Workforce Training Participant Data
- Unemployment Benefit Recipients

Other

- **GED Results**
- Out of State Higher Education Enrollments and Completions (National Student Clearinghouse)

The 4P's

Pathways:

The movement of individual students between K-12 / Higher Education / Workforce

- Who enrolls in college and when?
- Which levels of education lead to higher wages?

Progress:

The benchmarks or transition points students meet—or fail to meet

- How many students choose college, how many work?
- What industries employ college graduates and at what wages?

Predictors:

The characteristics, patterns, or commonalities that help explain which students achieve successful outcomes and which do not.

- Student demographics
- Immediate vs. delayed entry into postsecondary education

Performance:

How well are education and workforce aligned for individual success?

- Where can we focus additional strategies and resources?

What have we learned?

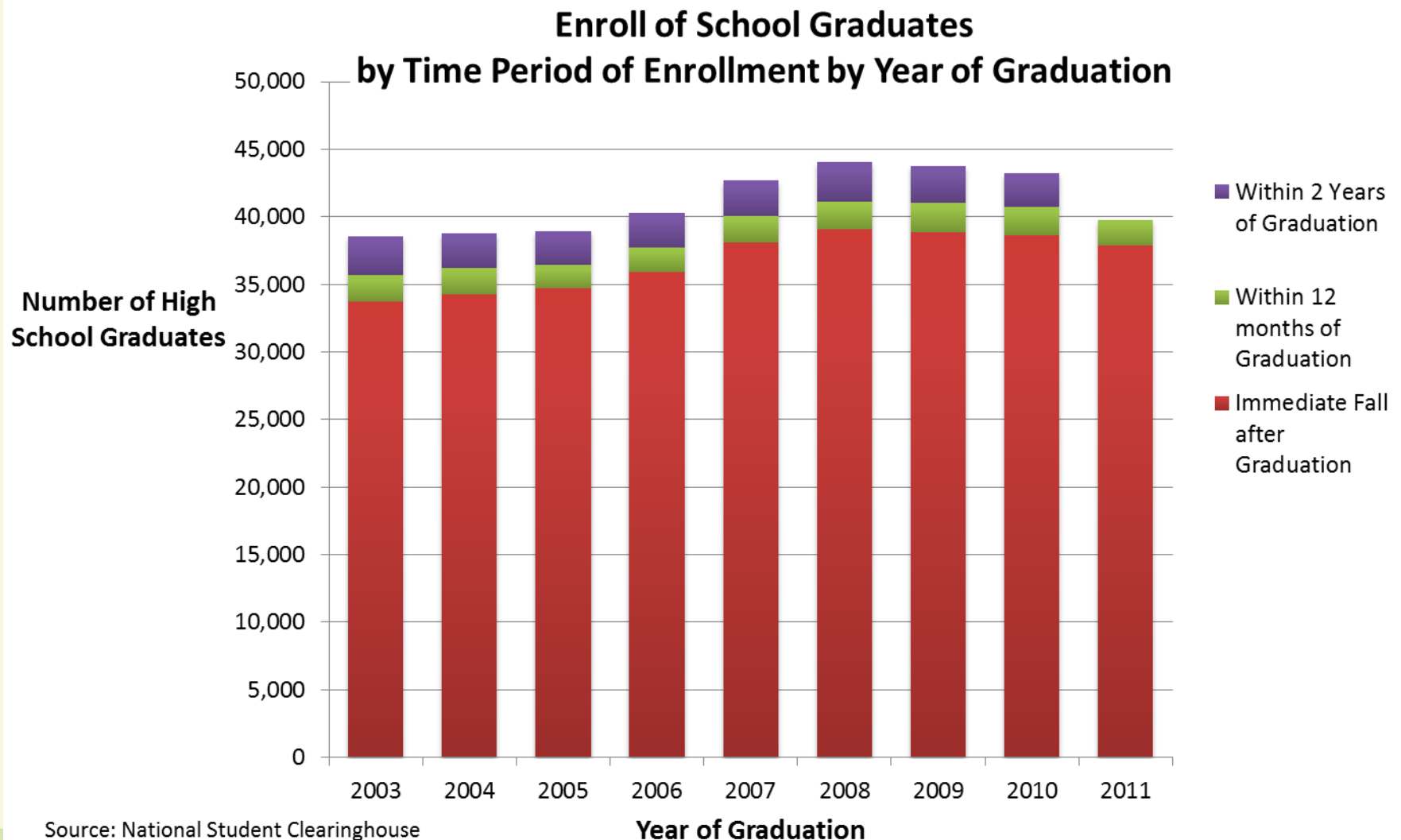
Where do Minnesota public high school graduates go to college?

Top Destination Colleges for Minnesota Public High School Graduates 2003-2011

Name	State	Level	Type	Cumulative Number	% of Graduates
UNIVERSITY OF MINNESOTA-TWIN CITIES	MN	4-year	Public	26,421	5.2%
MINNESOTA STATE UNIVERSITY - MANKATO	MN	4-year	Public	14,878	3.0%
UNIVERSITY OF MINNESOTA-DULUTH UNDERGRADUATE	MN	4-year	Public	14,403	2.9%
ST CLOUD STATE UNIVERSITY	MN	4-year	Public	14,145	2.8%
NORTH DAKOTA STATE UNIVERSITY	ND	4-year	Public	9,043	1.8%
WINONA STATE UNIVERSITY	MN	4-year	Public	8,052	1.6%
ANOKA RAMSEY COMMUNITY COLLEGE	MN	2-year	Public	9,021	1.8%
CENTURY COLLEGE	MN	2-year	Public	7,901	1.6%
NORMANDEALE COMMUNITY COLLEGE	MN	2-year	Public	8,600	1.7%
ROCHESTER COMMUNITY & TECHNICAL COLLEGE	MN	2-year	Public	6,763	1.3%
			Subtotal	119,227	23.6%
Total Minnesota Public High School Graduates 2003-2011				504,161	

Source: National Student Clearinghouse

When do Minnesota public high school graduates go to college?



How many Minnesota public high school graduates finish college?

With the first 8 years after high school graduation,

- 75% of high school graduates enroll in college
- 48% of high school graduates have graduated from college
- 22% of high school graduates enrolled in college and dropped out without completing a certificate or degree
- 5% of high school graduates are still enrolled in college

Source: National Student Clearinghouse

High School Feedback reports

- For high schools, school districts and the state...
 - Provides pre-graduation and post-graduation data on students. For example,
 - Performance on MCA Math and Reading tests?
 - Enrollment in college developmental education credits?
- Are MCA tests and enrollment in development education correlated?
- Number of students of color?
 - Enrollment in college?
- How many students of color at your local high school are enrolling in college as compared to other high schools?

Employment & Graduates

- Minnesota institutions* granted 72,659 degrees and certificates in 2009-10
 - 73.4% of those graduates were employed in Minnesota one-year after graduation (April-June 2011)
 - 47% were employed full-time (455+ hours per quarter)
 - 53% were employed part-time or part-quarter
 - The mean wage rate for those working graduates was \$21.93 per hour (\$45,600 per year, all degree levels)

Minnesota Employment rates, full-time employment rates and wage rates all increase with higher degree levels.

*Excludes Walden University and Capella University

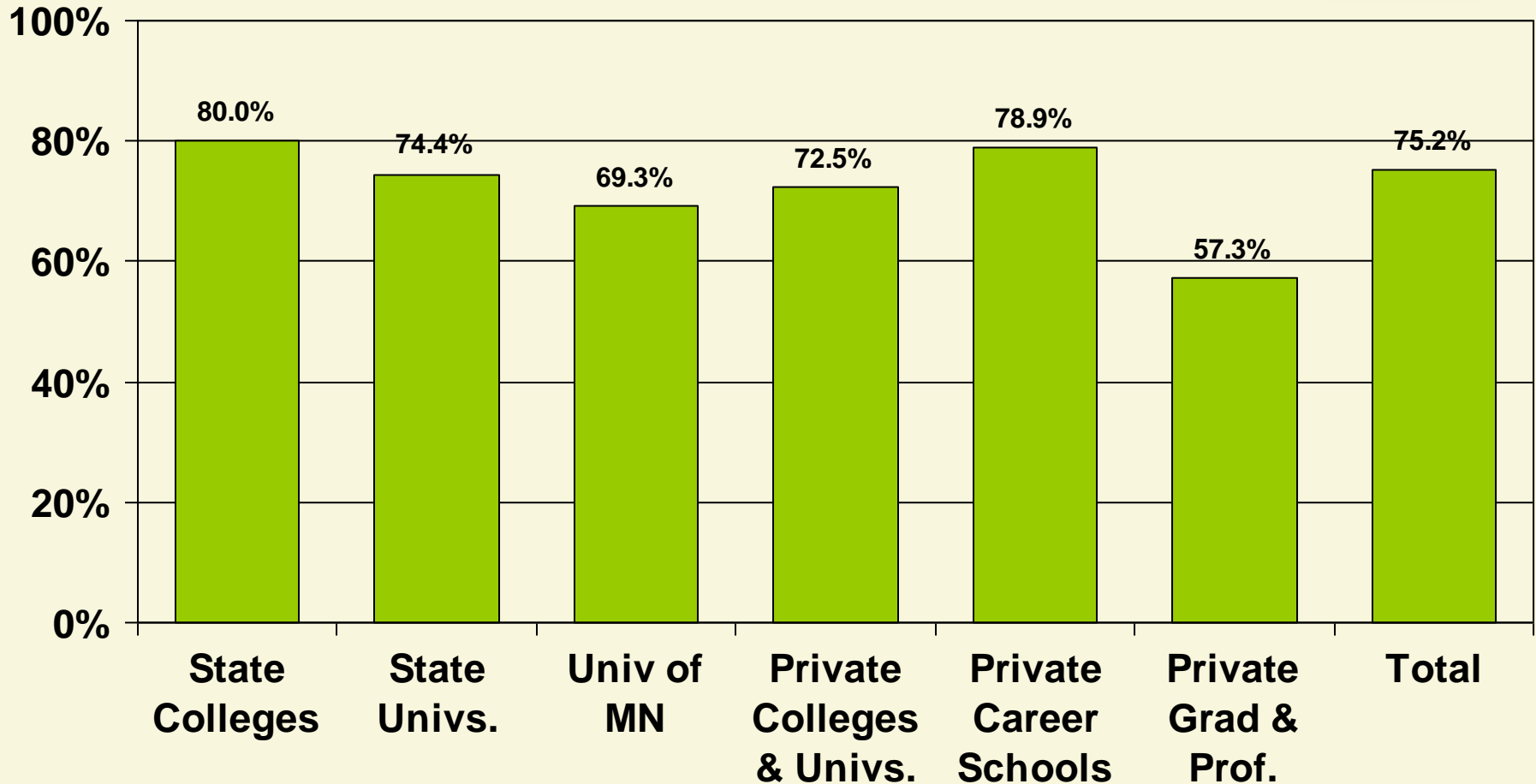
Graduates' Employment

Minnesota institutions -72,659 graduates 2009-10

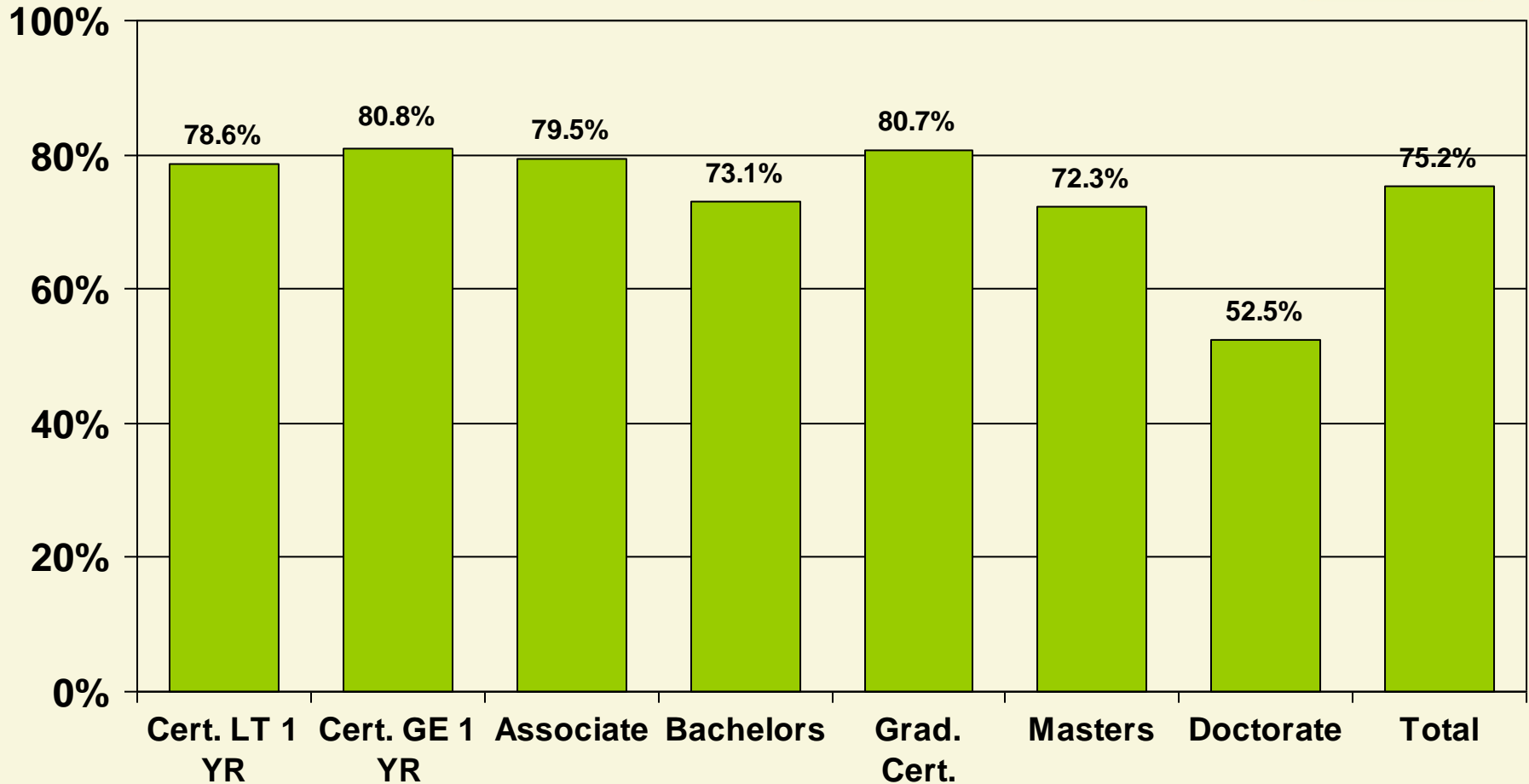
- Employment: MN Employers covered by Unemployment Insurance
 - Excludes: Federal, Military, self-employed and those employed in other states
- 75.2% of those graduates were employed in Minnesota one-year after graduation
 - April-June 2011
 - Minnesota Employment rates, full-time employment rates and wage rates all increase with higher degree levels.

*Excludes Walden University and Capella University

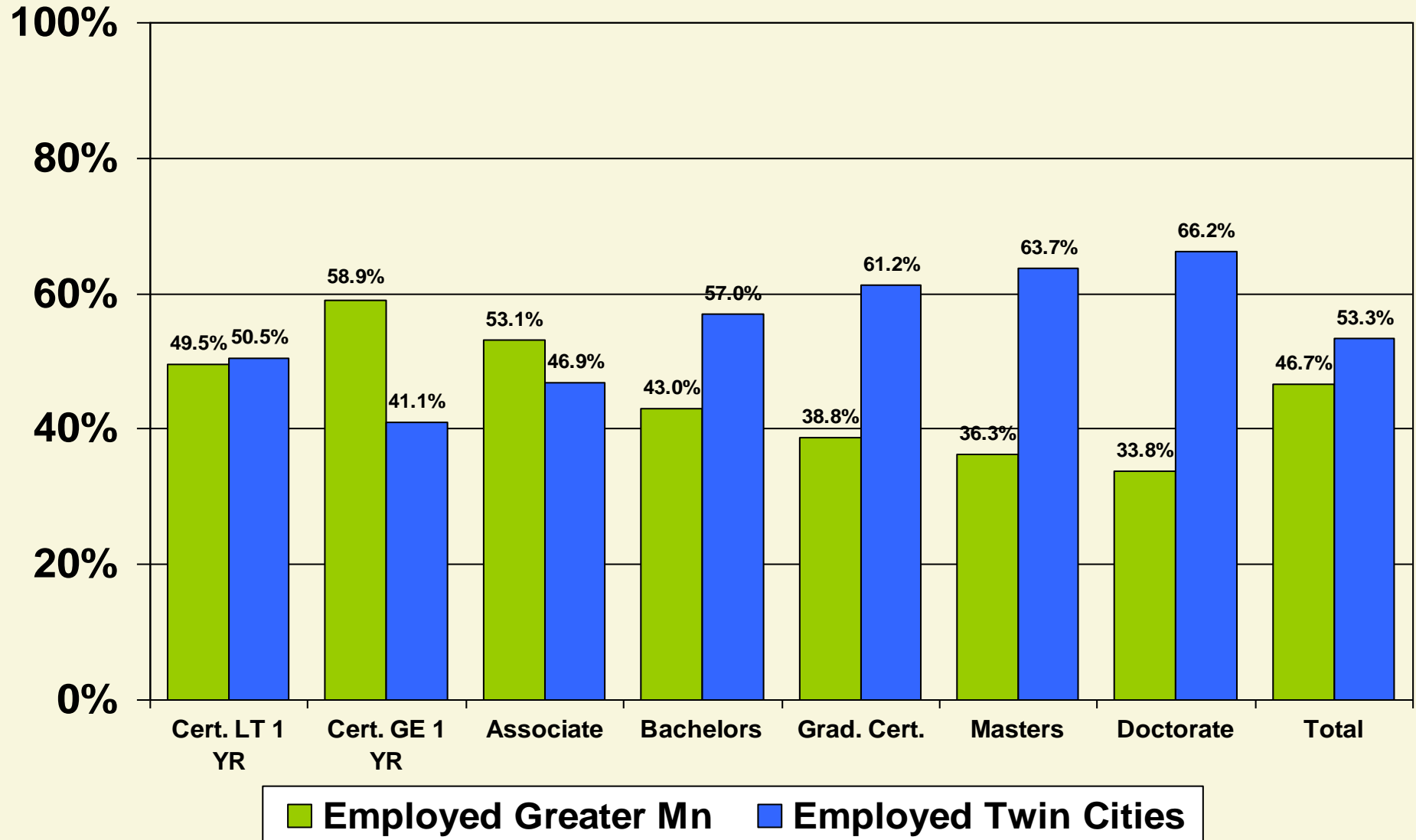
Employment Rates by Sector



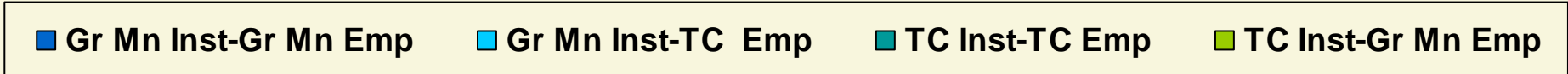
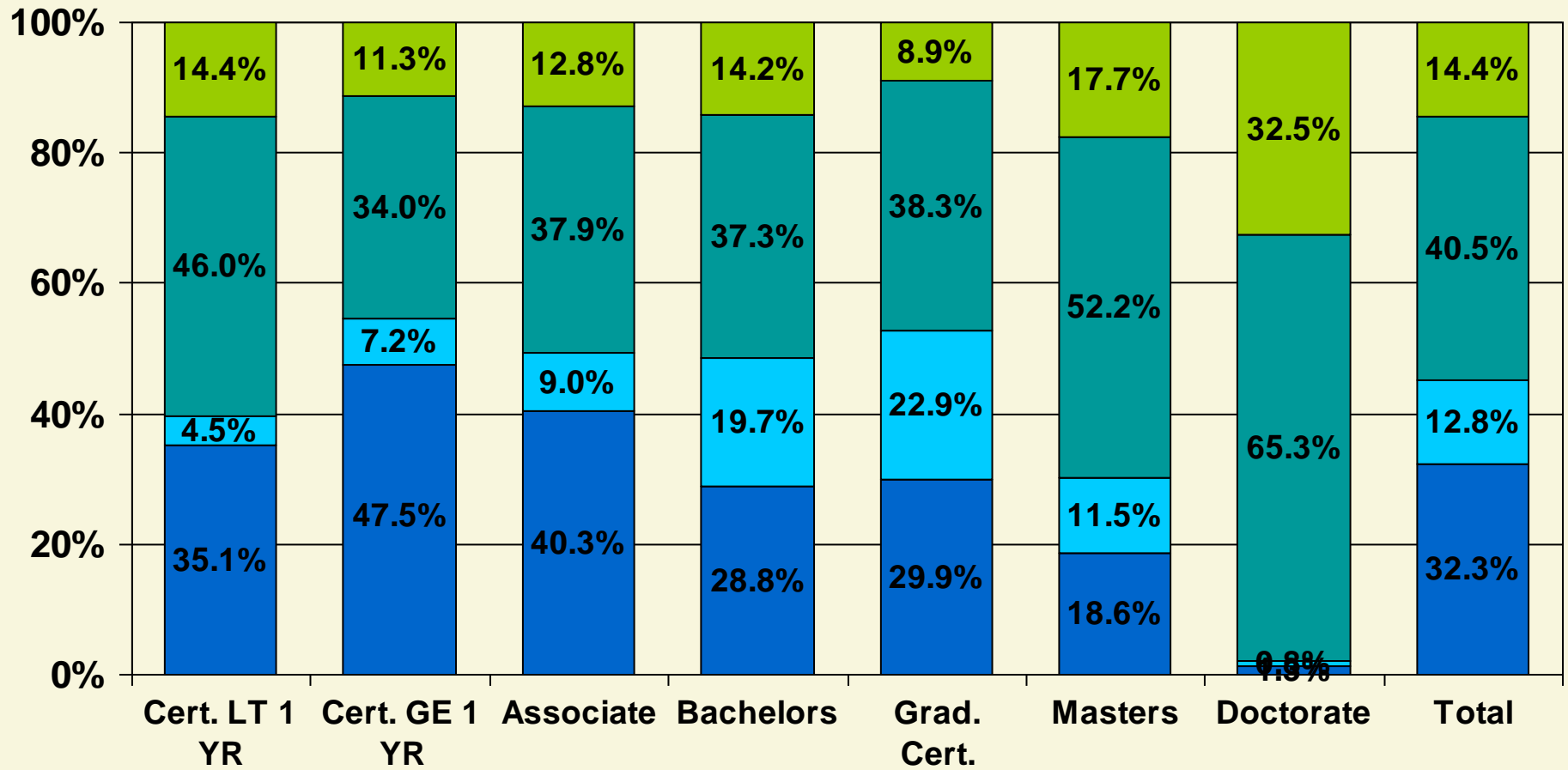
Employment Rates by Level



Employment by Region



Employment by Institution and Employer Location



Employment Rate by Major

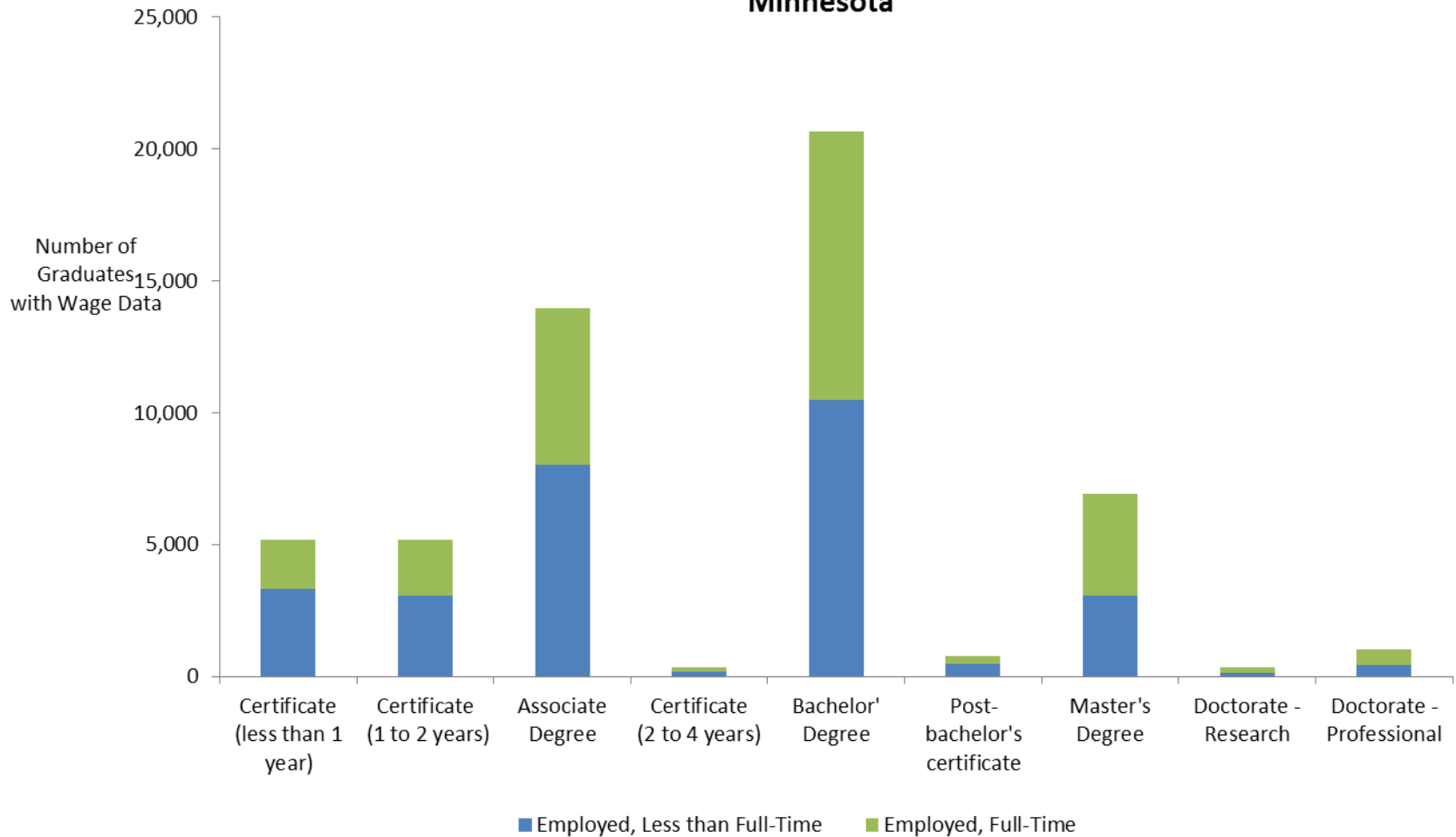
MAJOR	RATE
SECURITY AND PROTECTIVE SERVICES.	86.0%
PRECISION PRODUCTION.	85.9%
MECHANIC AND REPAIR TECHNOLOGIES/TECHNICIANS.	80.7%
ENGINEERING TECHNOLOGIES/TECHNICIANS.	80.6%
BUSINESS, MANAGEMENT, MARKETING, AND RELATED SUPPORT SERVICES.	80.5%
PUBLIC ADMINISTRATION AND SOCIAL SERVICE PROFESSIONS.	80.1%
LIBRARY SCIENCE.	80.0%
EDUCATION.	79.8%
LIBERAL ARTS AND SCIENCES, GENERAL STUDIES AND HUMANITIES.	79.7%
HEALTH PROFESSIONS AND RELATED CLINICAL SCIENCES.	78.1%
COMMUNICATION, JOURNALISM, AND RELATED PROGRAMS.	76.8%
COMMUNICATIONS TECHNOLOGIES/TECHNICIANS AND SUPPORT SERVICES.	76.4%
COMPUTER AND INFORMATION SCIENCES AND SUPPORT SERVICES.	75.6%
PERSONAL AND CULINARY SERVICES.	74.8%
CONSTRUCTION TRADES.	74.2%
LEGAL PROFESSIONS AND STUDIES.	73.0%
ARCHITECTURE AND RELATED SERVICES.	72.7%
VISUAL AND PERFORMING ARTS.	72.6%
PSYCHOLOGY.	72.1%

Employment Rate by Major

MAJOR	RATE
ENGLISH LANGUAGE AND LITERATURE/LETTERS.	69.2%
FAMILY AND CONSUMER SCIENCES/HUMAN SCIENCES.	69.0%
NATURAL RESOURCES AND CONSERVATION.	68.7%
PARKS, RECREATION, LEISURE, AND FITNESS STUDIES.	67.4%
TRANSPORTATION AND MATERIALS MOVING.	66.6%
MULTI/INTERDISCIPLINARY STUDIES.	66.2%
ENGINEERING.	66.0%
SOCIAL SCIENCES.	65.8%
Residency Programs.	65.3%
BIOLOGICAL AND BIOMEDICAL SCIENCES.	64.7%
HISTORY (NEW)	63.8%
FOREIGN LANGUAGES, LITERATURES, AND LINGUISTICS.	63.5%
AREA, ETHNIC, CULTURAL, AND GENDER STUDIES.	59.4%
SCIENCE TECHNOLOGIES/TECHNICIANS.	58.3%
MATHEMATICS AND STATISTICS.	52.5%
AGRICULTURE, AGRICULTURE OPERATIONS, AND RELATED SCIENCES.	52.2%
PHILOSOPHY AND RELIGIOUS STUDIES.	49.8%
PHYSICAL SCIENCES.	48.6%
THEOLOGY AND RELIGIOUS VOCATIONS.	42.6%

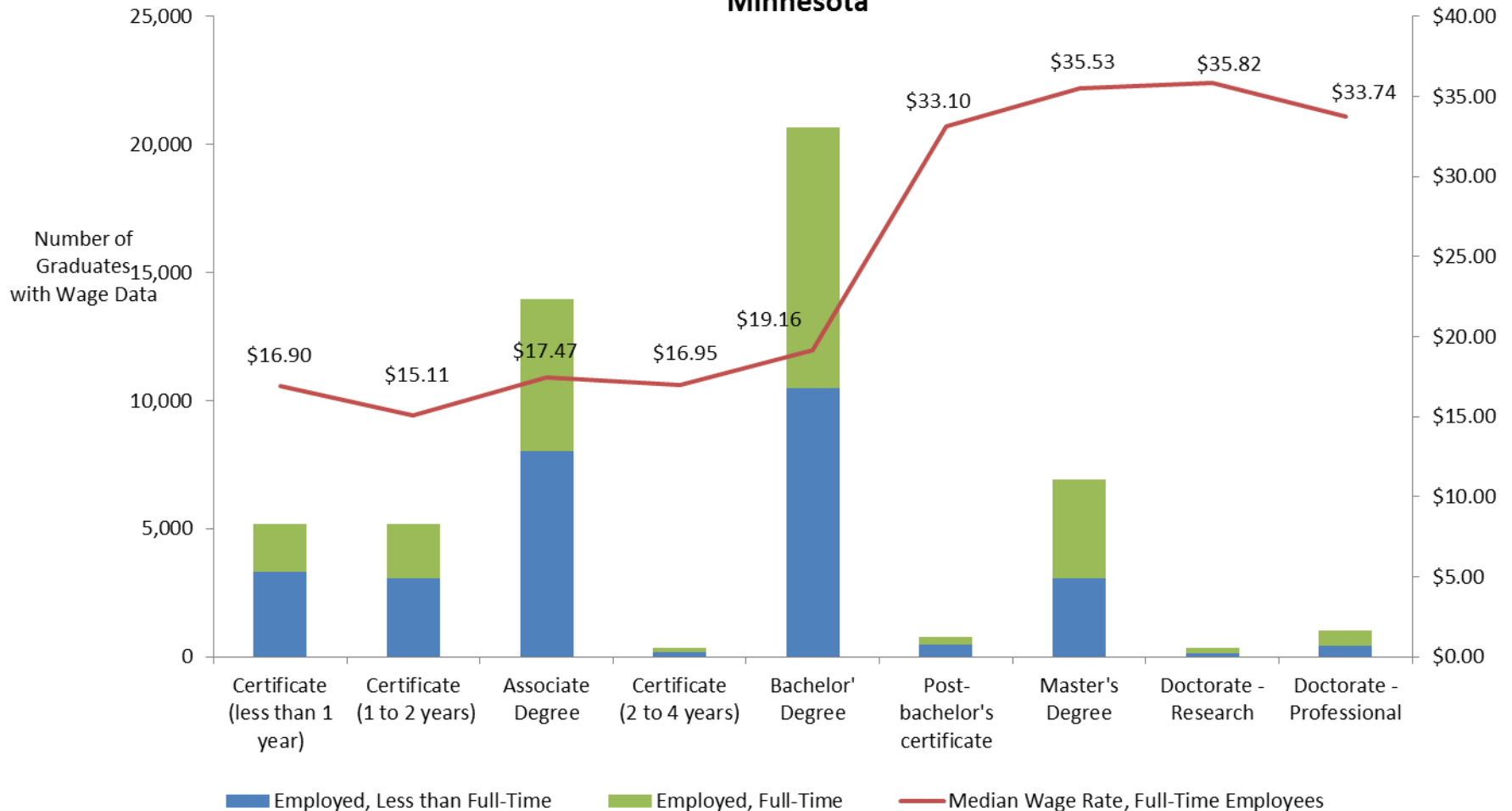
Employment & Graduates

2009-2010 Graduates, One-Year after Graduation
by Award Level, Employment Level, and Median Wage Rate
Minnesota



Employment & Graduates

2009-2010 Graduates, One-Year after Graduation
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Minnesota



Employment & Graduates

- Working to develop institution level reports

Employment Outcomes of Graduates One Year After Graduation

DRAFT 10/30/2012

2009-2010 Graduates (as reported to OHE)

Institution: VIKING COLLEGE

		Degree	Major	Number of Completers	% of Completers	Number Employed at Less than Full-Time	% of Completers with Wage Records Employed at Less than Full-Time	Less than Full-Time Median Wage Rate	Number Employed at Full-Time	% of Completers with Wage Records Employed at Full-Time	Full-Time Median Wage Rate
SECTOR	VIKING COLLEGE	Bachelor	Accounting	18	83%	4.00	27%	\$ 24.74	11.00	73%	\$ 21.49
			Biology/Biological Sciences, General	57	61%	26.00	74%	\$ 12.66	9.00	26%	\$ 11.03
			Business Administration and Management, General	29	79%	7.00	30%	\$ 17.93	16.00	70%	\$ 15.62
			English Language and Literature, General	21	81%	12.00	71%	\$ 13.50	5.00	29%	\$ 9.34
			Nursing/Registered Nurse (RN, ASN, BSN, MSN)	43	77%	18.00	55%	\$ 31.16	15.00	45%	\$ 24.32
			Nutrition Sciences	28	82%	17.00	74%	\$ 13.23	6.00	26%	\$ 19.07
			Political Science and Government, General	17	53%	3.00	33%	\$ 27.63	6.00	67%	\$ 13.83
			Psychology, General	48	88%	26.00	62%	\$ 12.24	16.00	38%	\$ 14.36
			Speech Communication and Rhetoric	59	69%	14.00	34%	\$ 12.07	27.00	66%	\$ 15.47
			Total	487	76%	174.00	47%	\$ 14.43	194.00	53%	\$ 15.54

Gaps & Issues in Analysis

- Dual Enrollment
 - Timing of data sent to OHE
- K-12 Common Course Catalog
 - Common numbering of courses multi-year phase-in
- Cohort definitions
 - Alignment between K-12 & higher education
 - K-12 dynamic cohort definition based on 9th grade enrollment
 - Higher education cohort definition based on entering term
- Employment
 - No direct linking between K-12 & employment
 - Data does not include work study employment

Next Steps

- Data access request process
 - Access for institutional staff and researchers is a project priority
- Report development and website launch
- Secure state funding
- Longitudinal and large scale research projects
 - Workforce outcomes of college graduates across time
 - Longitudinal analysis of high school graduates
 - Educational and workforce program evaluation.

Alignment of Data Initiatives

Early Childhood SLEDS

- Early Childhood Family Education
- Pre-school Programs
- Kindergarten Readiness

SLEDS

- K-12
- Postsecondary Education
- Adult Basic Education
- Career and Technical Education

Workforce Data Quality Initiative (WDQI)

- Adult Basic Education
- Adult Employment and Training Programs
- Unemployment Insurance Wage Detail

Need more information?

Minnesota P-20 Education Partnership

http://www.mnp20.org/working_groups/longitudinal_data_system.html

Minnesota Office of Higher Education

<http://www.ohe.state.mn.us>