

Centers of Excellence



Board of Trustees
Academic and Student Affairs Committee
May 19, 2015

Minnesota State Colleges and Universities

The Minnesota State Colleges and Universities system is an Equal Opportunity employer and educator.



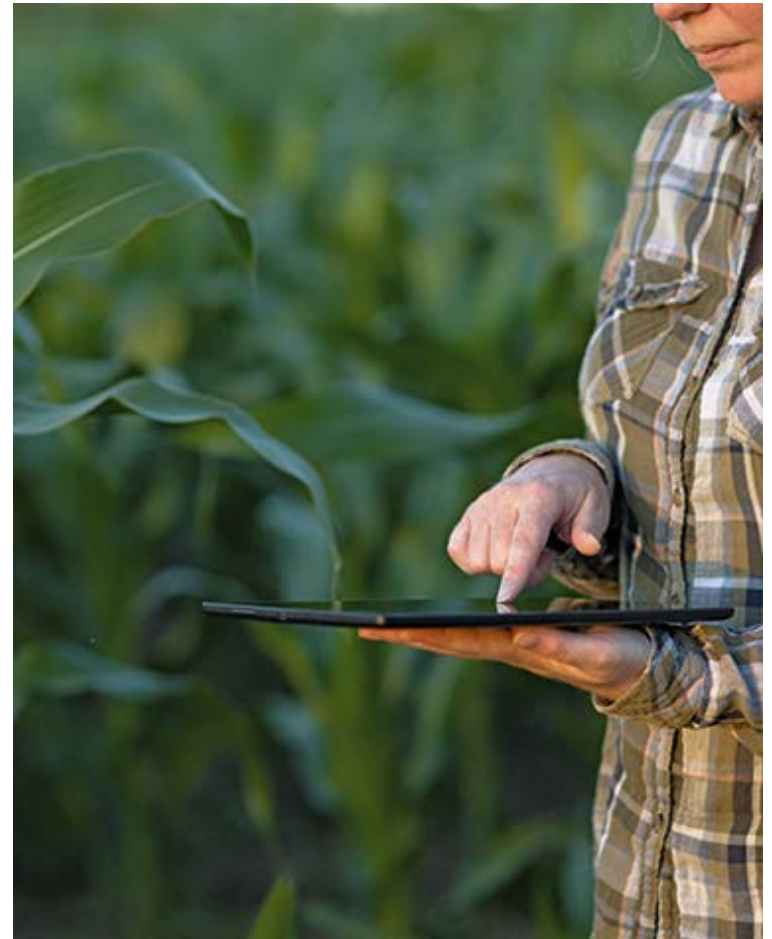
Background

- Created in 2005 as an initiative of the Governor with funding of \$5 million per year
- Initially, four centers were designated through a competitive process
- There are now eight centers in six industries:
 - *Health care*
 - *Manufacturing and engineering*
 - *Information technology*
 - *Agriculture*
 - *Energy*
 - *Transportation*



AgCentric

- Keith Olander, Director
- Host: Central Lakes College
- Partner colleges:
 - *Central Lakes College*
 - *Northland Community and Technical College*
 - *Ridgewater College*



Southern Minnesota Agriculture Center of Excellence

- Bradley Schloesser, Director
- Host: South Central College
- Partner colleges:
 - *South Central College*
 - *Minnesota West Community and Technical College*
 - *Southwest Minnesota State University*
 - *Many high schools across Southern Minnesota*



Minnesota Energy Center

- Bruce Peterson, Director
- Host: Minnesota West Community and Technical College
- Partner colleges:
 - *St Cloud Technical and Community College*
 - *Dakota County Technical College*
 - *South Central College*
 - *Century College*
 - *Itasca Community College*
 - *Minnesota State Community and Technical College*
 - *Anoka Ramsey Community College*
 - *Fond du Lac Tribal and Community College*
 - *Riverland Community College*



360 Manufacturing and Applied Engineering ATE Regional Center of Excellence (360)

- Karen White, Director
- Host: Bemidji State University
- Partners:
 - *Anoka Ramsey Community College*
 - *Century College*
 - *Central Lakes College*
 - *Hennepin Technical College*
 - *Lake Superior College*
 - *Minneapolis Community and Technical College*
 - *Northland Community and Technical College*
 - *Northwest Technical College*
 - *Pine Technical and Community College*
 - *Riverland Community College*
 - *Ridgewater College*
 - *Saint Paul College*
 - *St. Cloud Technical and Community College*
 - *South Central College*



LEADING THE
MANUFACTURING
TALENT REVOLUTION



Minnesota Center for Engineering and Manufacturing Excellence (MnCEME)

- Kent Carlson, Director
- Host: Minnesota State University, Mankato
- Partner colleges:
 - *Alexandria Technical and Community College*
 - *Anoka Technical College*
 - *Hennepin Technical College*
 - *Normandale Community College*
 - *Northeast Higher Education District*
 - *South Central College*



Advance IT Minnesota

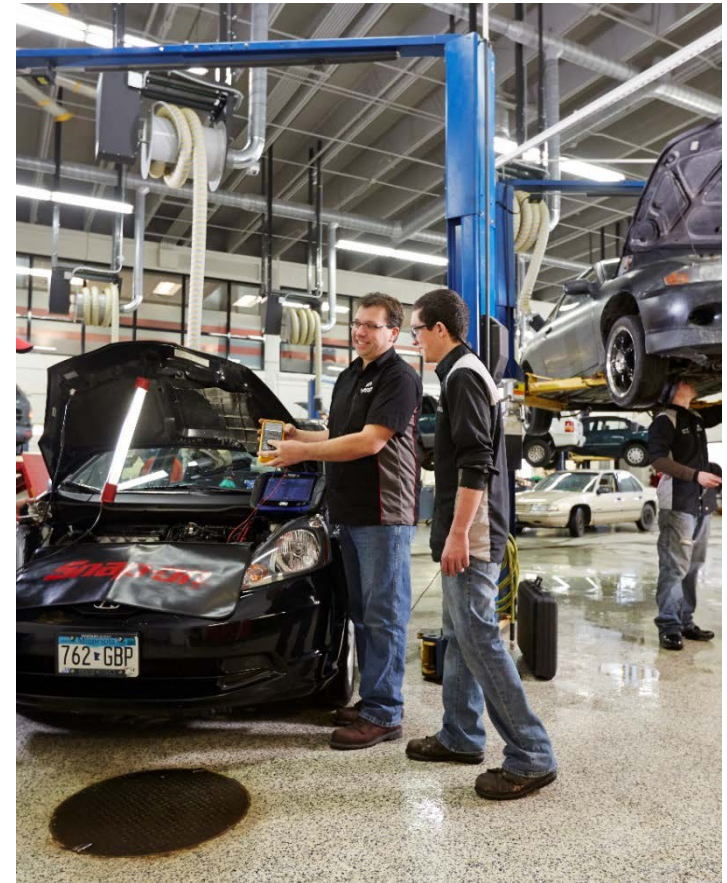
- Bruce Lindberg, Director
- Host: Metropolitan State University
- Charter Partners
 - *Metropolitan State*
 - *Inver Hills Community College*
 - *Minneapolis Community and Technical College*
- Active Academic Partners
 - *Three State Universities*
 - *15 Two-Year colleges*
 - *University of Minnesota, Twin Cities*



Twin Cities IT Talent Meet Up

Minnesota Transportation Center

- Robert Engberg, Director
- Host: Dakota County Technical College
- Partners:
 - *18-2 year colleges*
 - *1-state university*
 - *Several high schools*



HealthForce Minnesota

- Valerie DeFor, Director
- Host: Winona State University
- Partner colleges:
 - *Central Lakes College*
 - *Century College*
 - *Inver Hills Community College*
 - *Lake Superior College*
 - *Minneapolis Community and Technical College*
 - *Minnesota State - Southeast Technical*
 - *Minnesota State University, Mankato*
 - *Normandale Community College*
 - *North Hennepin Community College*
 - *Pine Technical & Community College*
 - *Ridgewater College*
 - *Riverland College*
 - *Rochester Community & Technical College*
 - *Saint Paul College*
 - *South Central College*



HealthForce⁺ Minnesota
Transforming education. Advancing practice.



MnSCU's centers of excellence support economic growth and workforce development by:

- *Expanding career awareness among middle and high school students, with special emphasis on diverse students*
- *Preparing students for targeted careers and increasing enrollment in MnSCU programs*
- *Fostering students' initial job attainment*
- *Aligning curriculum to employer expectations and anticipating future employment needs*
- *Collaborating with multiple partners to solve talent gaps*

Strategies

- **Build partnerships and alliances** with industry employers, associations and like-minded organizations to improve coordination of efforts and leverage resources
- **Facilitate collective action among MnSCU institutions** to enhance the scale and effectiveness of addressing industry talent needs
- **Provide opportunities for students**, educators and employers to build relationships with one another to increase communication, understanding and collaboration
- **Serve as an advocate and convener** for industry stakeholders to explore new ideas, address concerns and promote innovations

Curriculum and program development

- **FUSION B.A.S. degree in IT** Advance IT
- Enterprise resource planning (ERP) Advance IT
- Iron Range Engineering and TC Engineering programs MnCEME
- **360 eTECH online manufacturing consortia programs** 360
- **Career success skills learning modules** 360
- **Peer-to-peer program improvement funds** 360
- AS broadfield in health sciences HealthForce
- Healthcare core curriculum HealthForce
- Energy technical specialist program Energy
- Energy program national recognition Energy
- National Pork Board - professional swine manager Southern Ag
- Farm Business Management Agriculture



Partnering with employers to prepare top development talent

Bachelor's level education and experiential learning



FUSION I.T. Residency: A new approach to bridging the “Experience Gap”



FOR EMPLOYERS

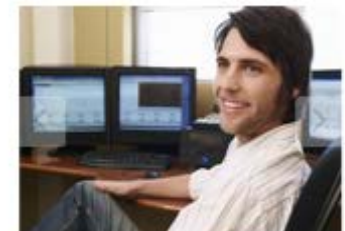
Develop your own I.T. Talent with the real-world web and app development skills you need.



FOR STUDENTS

Get paid while you earn your degree, build your network and launch your I.T. career.

FUSION News & Events



360 Manufacturing and Applied Engineering: Program examples

- *360 eTECH online manufacturing consortia programs*
- *Career success skills learning modules*
- *Peer-to-peer program improvement funds*



Career awareness and recruitment

- Auto Technician | Auto Body Repair Career Fair Transportation
- Nitro Summer Camp Transportation
- Robotics competitions utilizing VEX platform 360
- Statewide Dream It. Do It. tour of manufacturing 360
- Dream It. Do It. recruitment strategy 360
- 360 sponsored or supported camps across the state:
 - *Robotics summer camps*
 - *Digital fabrication workshops*
 - *STAR (students, technology and robots) camp*
 - *Robotics Challenge*
 - *Learn and Build Camp*
 - *STEM Girls Camp*

Career awareness and recruitment

- Minnesota Cyber Security Career Consortium AdvancelT
- **Aspirations in Computing Award & SPARCS** AdvancelT
- **Scrubs camps** HealthForce
- **ConnectZ – Girl Scouts** HealthForce
- Latino/a Engineering Day MnCEME
- Project Lead the Way MnCEME
- Careers in Energy Week Energy
- Energy mobile training centers Energy
- STEM expo with Minneapolis schools AgCentric
- FFA statewide convention Agriculture

2015 Minnesota Aspirations in Computing Award Winners



2014 Minnesota Aspirations for Women in Computing Awards Recipients
*April 29, 2014 awards program, at 2014 sponsor General Mills' Corporate Campus
in Minneapolis, Minnesota*



Scrubs Camps

HealthForce⁺ Minnesota

Transforming education. Advancing practice.



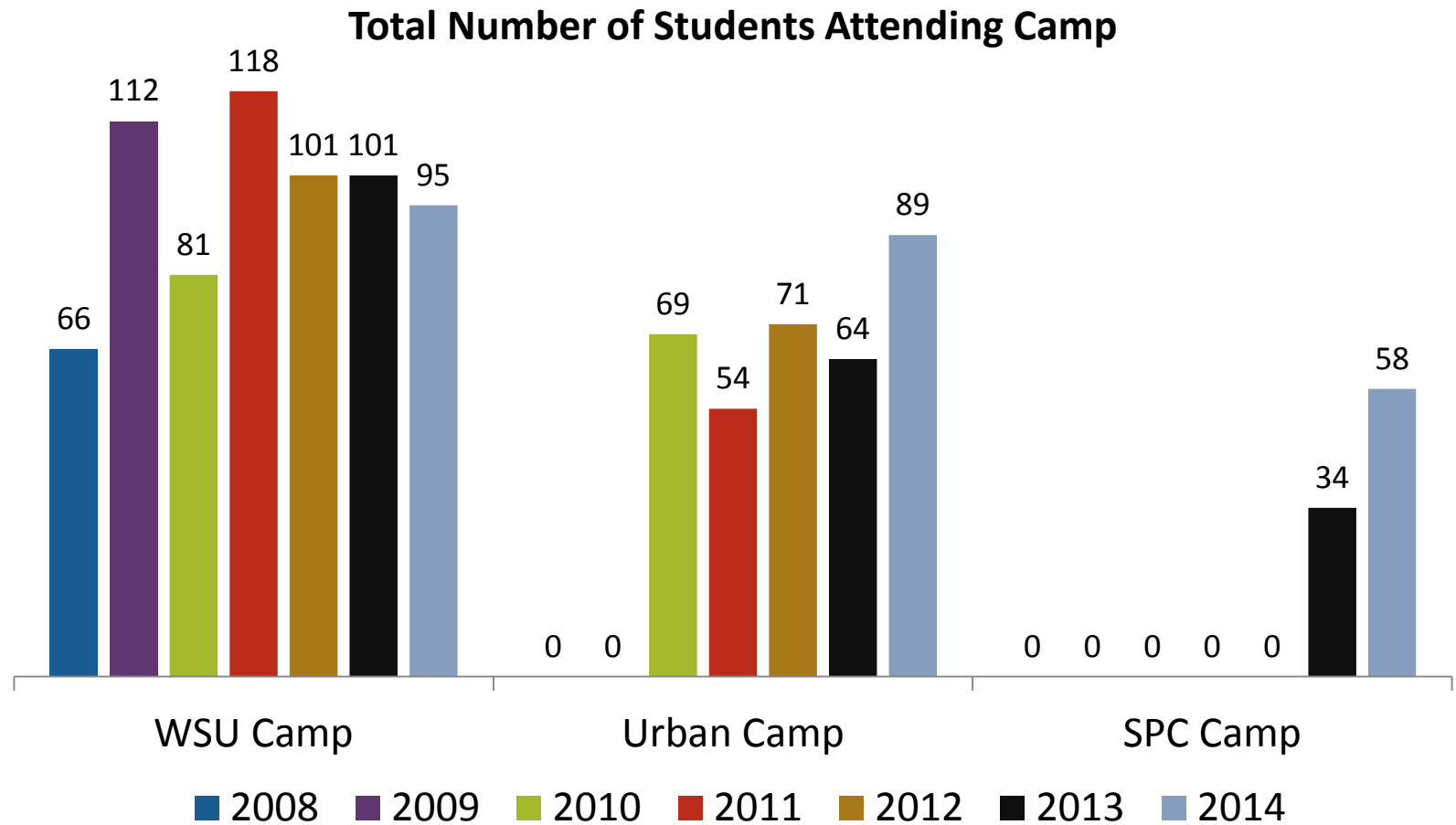
Intentional outreach to diverse, first-generation, and low-income students to dream the dream of going to college

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Scrubs camp enrollment

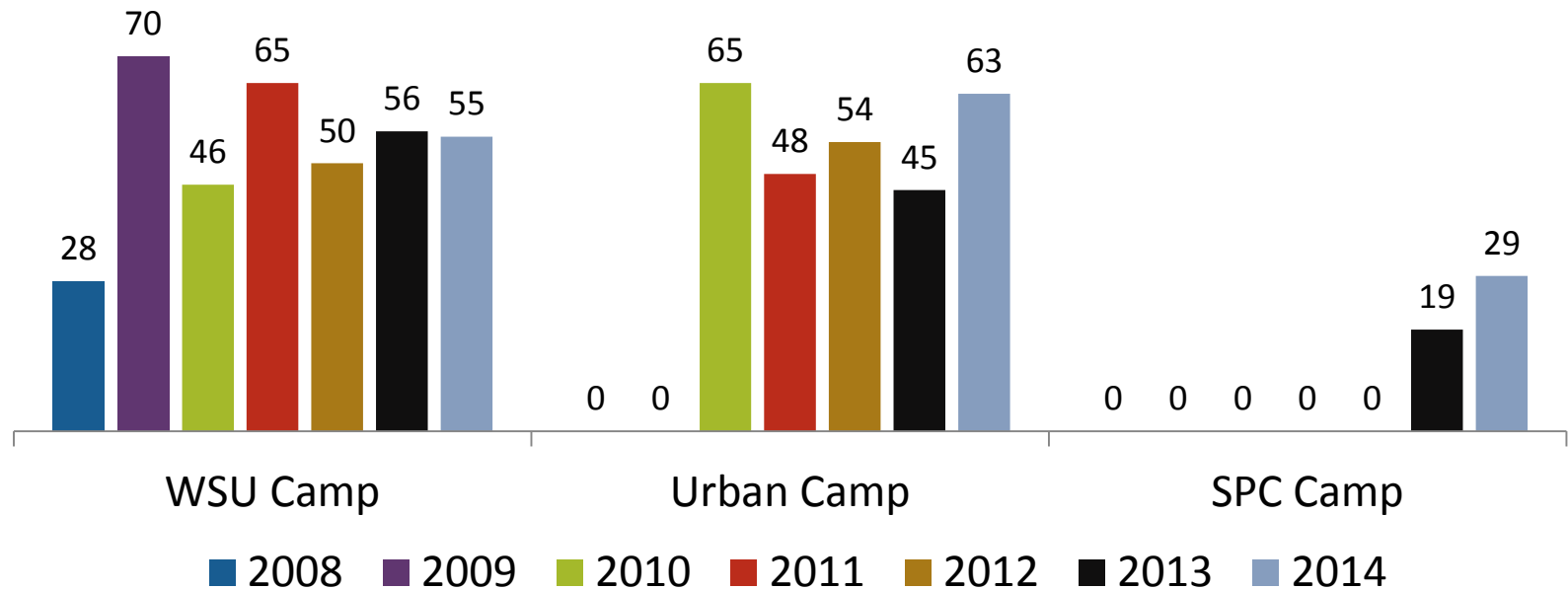


2014 - Scrubs camper diversity

2014	Winona State University	<i>Urban (Augsburg)</i>	Saint Paul College
Number of Campers	95	89	57
American Indian	3 (3%)	1 (1%)	1 (2%)
Asian	19 (20%)	17 (19%)	21 (37%)
Black/African American	14 (15%)	40 (45%)	17 (30%)
Hispanic/Latino	7 (8%)	7 (8%)	
White	52 (54%)	23 (26%)	16 (28%)
No response		1 (1%)	
Other			2 (3%)

Scrubs camp scholarships

Number of Scholarships Awarded





Winona State University Scrubs Camp - Fairview Scholarship Recipients



2014 Camp Highlights

WSU Camp	Urban Camp	Saint Paul College Camp
<p>19 different topics and 4 field trips</p> <ul style="list-style-type: none"> • Mid-wifery • DNA forensic investigation • CPR certification • Careers in mental health • Field trips to St. Anne's, Winona Health, SE Tech, and river activity 	<p>20 different topics and 4 field trips</p> <ul style="list-style-type: none"> • Step-Up/Addictions • Children's sim bus • Animal assisted therapy • Massage therapy • DNA in action • Field trips to Episcopal Homes, Catholic Elder Care, St. Kate's, and Amplatz 	<p>17 different topics and 2 field trips</p> <ul style="list-style-type: none"> • Birthing simulation • Physiology • Save a Life CPR • Amazing heart anatomy • Field trips to Gillette Children's Hospital and Health East Medical Transportation
<p>Talent show and a variety of evening activities.</p>	<p>Emphasis on team building to connect campers.</p>	<p>Psychologist Dr. Alyssa Vang spoke to all students.</p>
<p>Keynote speaker Pete Fiegal</p>	<p>Keynote speaker Pete Fiegal</p>	<p>Keynote speaker Pete Fiegal</p>

Healthcare providers partners

- Allina
- Boston Scientific
- Benedictine Health System
- Children's Hospital of MN
- Catholic Elder Care
- Episcopal Homes
- Fairview Health Services
- Gillette Children's Specialty HealthCare
- HealthEast Medical Transportation
- HealthPartners
- Mayo Clinic
- St. Anne's of Winona
- U of M Children's Hospital
- Winona Health

Education and other partners

Hosts:

Winona State University

Saint Paul College

Augsburg College

- St. Catherine's University
- St. Paul Public Schools counselors
- Minnesota State Southeast Technical
- Winona State University Foundation
- Office of Higher Education
- Girl Scouts of River Valley
- Step-Up Minneapolis
- Otto Bremer Foundation

Post-camp survey results

- **Spending time on a university campus helped students better understand and visualize themselves at college:**
 - *Winona State University Camp = 96%*
 - *Urban/Augsburg Camp = 98%*
 - *Saint Paul College Camp = 89%*

- **Students' satisfaction with the overall camp experience:**
 - *Winona State University Camp = 97%*
 - *Urban/Augsburg Camp = 99%*
 - *Saint Paul College Camp = 97%*

2015 and beyond...

- Expansion of camps for summer 2015
 - *Middle school camp at Dakota County Technical College*
 - *High school camp at M-State, Fergus Falls*
 - *High school camp at Minnesota State, Mankato*
 - *High school camp at Bemidji State University*

- Expansion of camps for summer 2016
 - *High school camp in Duluth*
 - *High school camp in St. Cloud*

Video

<https://www.youtube.com/watch?v=tKx9DAQEa-g>

Girls ConnectZ

- Partnership with Girl Scouts
- ~200 Girl Scout ConnectZ high school students
 - *Rochester Community and Technical College*
 - *Century College*
 - *South Central College*

Professional development and program assistance

- Agriculture teacher education
 - *AgCentric*
- Curriculum for Agricultural Science Education (“CASE”)
 - *Southern Minnesota Agriculture Center of Excellence*
- Evaluation team leader training for accredited automotive programs
 - *Minnesota Transportation Center*
- CHRYSLER summer instructor workshop
 - *Minnesota Transportation Center*
- Nursing program accreditation – technical assistance
 - *HealthForce*

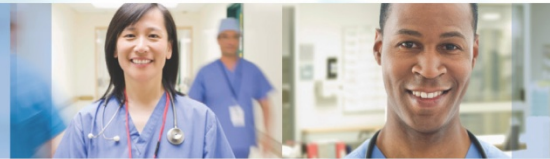
Research, advocacy and industry partnerships

Research and Advocacy

- Minnesota Manufacturing Environmental Scan 2015 360
- **Mental Health Workforce Report** HealthForce

Industry Partnerships

- Industry Advisory Councils All
- Ecumen and Presbyterian Homes HealthForce
- The Clinical Coordination Partnership (TCCP) HealthForce



Mental Health Workforce State Plan

Legislative Charge (SF1236)

Minnesota State Colleges and Universities (MnSCU) will convene a summit and develop a plan that identifies ways to:

- Increase the number of qualified people working at all levels of our mental health system
- Ensure appropriate coursework and training
- Create a more culturally diverse mental health workforce

As required, the plan was submitted to the legislature January 15, 2015.

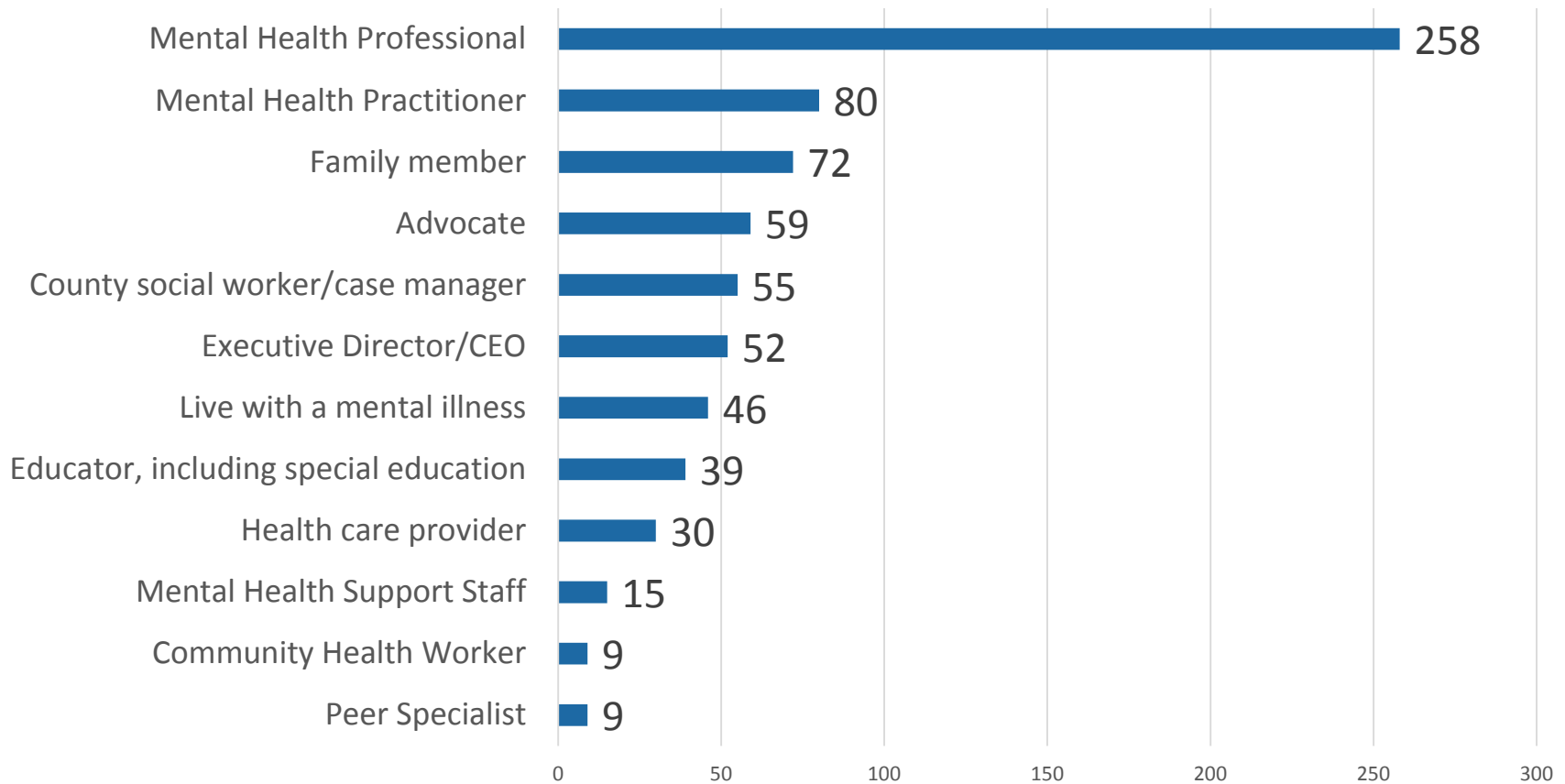
Steering Committee – 37 members

- Department of Human Services
- Department of Health
- Minnesota State Colleges and Universities
- University of Minnesota
- Private colleges
- Mental health professionals
- Special education representatives
- Child and adult mental health advocates and providers
- Community mental health centers

Forums/Presentations

Bemidji	Northfield
Brainerd	Pine City
Duluth	Rochester
Grand Rapids	St. Cloud
Mankato	Willmar
Metro Twin Cities (3)	Worthington
State Operated Services	MN Chapter of American Psychiatric Association
MN Assn. of Community Mental Health Clinics	MN Coalition of Licensed Social Workers
Native American Mental Health Advisory Council	HEIP Partnership Council

Survey of 500+ Minnesotans





Gearing Up for Action: Mental Health Workforce Plan for Minnesota



24 Recommendations

- Steering Committee Consensus
- Actionable
- Measurable
- Accountable

Contact: Valerie DeFor

Available by pdf at

<http://www.healthforceminnesota.org/mental-health-worforce-state-plan/>



Minnesota
STATE COLLEGES
& UNIVERSITIES

30 7th St. E., Suite 350, St. Paul, MN 55101-7804

(651) 201-1800 | (800) 456-8519 | +1 (651) 556-0596

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