MISSOURI PATHWAYS TO PROSPERITY

WHAT PARENTS NEED TO KNOW NOW

April 23, 2016
Missouri Department of Elementary and Secondary Education
What grade level is your child?

- Elementary
- Middle School
- High School
- Other
Why did you decide on this session?

Please Share
Roughly HALF of all Americans reach their mid-20s without the skills or credentials essential for success in today’s increasingly demanding economy.
Success in the New Economy

https://www.youtube.com/watch?v=AcNSpKX8kVs
## Missouri Data

<table>
<thead>
<tr>
<th>Of students who enroll in a public college or university</th>
<th>100</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2-Year Public College</strong></td>
<td></td>
</tr>
<tr>
<td>Enroll</td>
<td>39</td>
</tr>
<tr>
<td>Return as sophomores</td>
<td>23</td>
</tr>
<tr>
<td>Graduate on time (100% time)</td>
<td>4</td>
</tr>
<tr>
<td>Additional graduates (150% time)</td>
<td>3</td>
</tr>
<tr>
<td>200% time</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total graduates</strong></td>
<td>9</td>
</tr>
<tr>
<td><strong>Graduate in 4 years</strong></td>
<td>10</td>
</tr>
<tr>
<td><strong>4-Year Public College</strong></td>
<td></td>
</tr>
<tr>
<td>Enroll</td>
<td>44</td>
</tr>
<tr>
<td>Return as sophomores</td>
<td>35</td>
</tr>
<tr>
<td>Graduate on time (100% time)</td>
<td>15</td>
</tr>
<tr>
<td>Additional graduates (150% time)</td>
<td>5</td>
</tr>
<tr>
<td>200% time</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total graduates</strong></td>
<td>20</td>
</tr>
<tr>
<td><strong>Graduate in 8 years</strong></td>
<td>21</td>
</tr>
</tbody>
</table>

### Key to measuring time

<table>
<thead>
<tr>
<th>Time</th>
<th>Associate</th>
<th>Bachelor’s</th>
</tr>
</thead>
<tbody>
<tr>
<td>100% time</td>
<td>2 years</td>
<td>4 years</td>
</tr>
<tr>
<td>150% time</td>
<td>3 years</td>
<td>6 years</td>
</tr>
<tr>
<td>200% time</td>
<td>4 years</td>
<td>8 years</td>
</tr>
</tbody>
</table>

What is so important for parents to know NOW?

Current and Future Labor Markets

Success in the Current/Future Economy

Employer’s Needs

Resources

What You can do Now
Job Growth in the US Economy

There will be 55 million job openings in the US economy between now and 2020.

- 24 million from newly created jobs
- 31 million from openings due to retirements
Most Prevalent Career Focus Areas
Greatest Pipeline Development Need

Information Technology
Cross-cutting and key to all 21st century careers, not just in IT fields

Health Careers
Growing field, career paths must be carefully chosen

Advanced Manufacturing
Few know the opportunities and salaries, stigma attached
Job Growth in the US Economy

By 2020, the vast majority of the jobs in the US will require post-secondary education and training beyond high school.

RECOVERY: Job Growth and Education Requirements Through 2020
Georgetown University: Center on Education and the Workforce
The MISSOURI Economy

Missouri’s Department of Economic Development

Real Time Economic Data

www.missourieconomy.org
Employment Gaps in Missouri 2014

Online Job Advertisements and Number of Job Seekers

<table>
<thead>
<tr>
<th>Category</th>
<th>Demand</th>
<th>Job Seekers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Management and Support</td>
<td>20.2%</td>
<td>28.1%</td>
</tr>
<tr>
<td>Construction, Installation, Maintenance and Repair</td>
<td>5.9%</td>
<td>15.6%</td>
</tr>
<tr>
<td>Production</td>
<td>2.7%</td>
<td>12.4%</td>
</tr>
</tbody>
</table>

Missouri Labor Supply and Demand Analysis

Missouri Department of Economic Development/Missouri Economic Research and Information Center - March 2015
Employment Gaps in Missouri 2014

Online Job Advertisements and Number of Job Seekers

Science and Technology
- Demand: 14.9%
- Job Seekers: 2.9%

Business and Sales
- Demand: 19.8%
- Job Seekers: 10.0%

Health Care and Related Fields
- Demand: 16.5%
- Job Seekers: 9.3%
By 2020, College for All ≠ BA for All
65% of All Jobs Nationwide Will Not Require a BA Degree

Nationwide

- BA Degree or Higher: 35%
- HS Diploma or Less: 35%
- Some College/AA Degree: 30%

Sources: Recovery 2020, Georgetown Center on Education and the Workforce, 2013; and Complete College America
Post-Secondary Credentials for ALL

“College for All”

to

“Post-secondary Credentials for All"
• 43% of young workers with Licenses and Certificates earn more than those with an Associate’s degree

• 27% of young workers with Licenses and Certificates earn more than those with a Bachelor’s degree

• 31% of young workers with an Associate’s degree earn more than those with an Bachelor’s degree

Source: Georgetown University Center on Education and the Workforce
Meaningful Credential

A meaningful credential can be earned in many ways:

  - Community College
  - Four–year College
  - High School Programs
  - Apprenticeships
  - Military/Community Service
  - On-the Job Training
  - Credentialing Course
65%, or 106.6M, jobs will require some postsecondary education.

Source: Georgetown University Center on Education and the Workforce, *RECOVERY* (2013)
STEM OPPORTUNITIES ABOUND

Previous STEM studies have neglected the many blue collar and technical jobs that require considerable STEM knowledge. But this study finds that

50% of STEM jobs do not require a bachelor's degree. As a result, STEM knowledge plays a much larger role in our economy than previously thought:

There are 26 million STEM jobs in the U.S.

STEM jobs comprise 20% of all U.S. jobs.

The share of jobs requiring STEM knowledge has doubled since the Industrial Revolution.

What Employers Want

- Critical thinkers / Creative Problem Solvers
- Effective Communicators
- Strong Work Ethic
- Technical Competency / Digital Ability
- Data / Information Driven
- Collaborative
- Able to Work in Multi-Generational Settings
- Attendance and Punctuality
Resources

Statewide Resources

Missouri Pathways to Prosperity Network:  http://dese.mo.gov/college-career-readiness/career-education/pathways-prosperity

Missouri Connections:  http://missouriconnections.org login as guest with county and zip code
- Complete an interest inventory
- Research and explore career options
- Find training programs and educational institutions
- Develop personal plan of study
Statewide Resources continued

Missouri Department of Economic Development: www.missourieconomy.org
- Occupational Studies Tab
- Identify high demand occupations, salary ranges, qualifications

United State Department of Labor: https://www.doleta.gov/
- Additional high demand occupations, salary ranges, qualifications
What can parents do?

Beginning at an early age and continuing through high school, talk about:

- Your child’s strengths
- What do you like doing the most
- Emphasize looking a person in the eye when you are talking to them
- How to shake hands and what a firm handshake feels like
- Career pathways when the conversation naturally leads you there
- Occupations: parents, parent’s friends, relatives
- Go to zoos, nature centers, museums, historical sites - and reflecting on what they observed. This activity can be generalized to a variety of situations even those that occur daily
What can parents do continued

- Connect the math, communication arts, science and technology skills your child is learning to the “real world”
  - The game app on their electronic device
  - Calculate the math needed for a construction site, such as carpeting, measurements for placing counter tops with room for the appliances, etc.
  - Write an email to a parent or a relative that is workplace worthy. Use complete sentences and appropriate punctuation that does not contain text message abbreviations, symbols, etc.
PTA PARENTS

Thank you for all you do for Missouri Schools and Students!