Corporate Development Council

Engaging alumni and employers to prepare S&T students for success in the corporate world

Missouri University of Science and Technology

Founded 1870 | Rolla, Missouri | www.mst.edu
CDC Corporate Members

• Accenture
• ADM
• Alcoa/Davenport Works
• Ameren
• Anheuser-Bush Inc.
• Arco
• Associated Electric Coop.
• AT&T
• Bell Helicopter-Textron
• Black & Veatch
• Boeing
• Brinkmann Constructors
• Burns & McDonnell
• CAT
• Cerner Corporate
• Code Consultants
• ConocoPhillips
• EFCO
• Emerson
• Empire District Electric
• Express Scripts
• ExxonMobil
• Garmin
• General Motors
• Halliburton
• Honeywell
• Intelligrated
• J.E. Dunn
• JDS Labs, Inc.
• Luminant Power
• Mallinckrodt Pharmaceuticals
• Marathon Petroleum
• MasterCard
• Nooter/Eriksen
• Nuclear Regulator Commission
• Nucor-Yamato Steel
• Omaha Public Power District
• Pella Corporation
• Phillips66
• Schlumberger
• United States Steel
• Veolia Water Solutions
• Watlow Electric Mfg. Co.
Corporate Development Council Meeting Participation

90 Current Members from 43 Companies

- March 6, 2014: 22
- September 11, 2013: 28
- March 7, 2013: 21
- September 24, 2012: 30
- April 11-12, 2011: 27
- October 21, 2011: 13
- April 14-15, 2011: 24
Campus engagement opportunities to prepare students for the corporate world

- Student Leadership Conference
- Miner Challenge
- BRUSH
- Career Fair
- Externship
- Mentor a Miner
Student Leadership Conference

- 136 students
- 12 companies
- Offerings
  - Two tracks
  - Three employer panel discussions
  - 23 workshops
  - Networking opportunities
  - Keynote by Joshua Fredenburg
    - “Are you ready for Career Leadership”

2014 Corporate Participants

- Accenture
- Afton Chemical
- AmerenUE
- Black & Veatch
- The Boeing Company
- Cargill
- Covenant Engineering Services
- General Motors
- Legget & Platt
- Mallinckrodt Pharmaceuticals
- Nucor
- TEK Systems

Hosted February 1, 2014

2015 Student Leadership Conference

February 7, 2015
Miner Challenge Experience

Spring Break 2014

- 84 applicants
  - 63 selected participants
- Four trip options
  - Oklahoma Team
  - Colorado Team
  - Nicaragua Team
  - Texas Team

BRUSH - Beautifying Residences Using Student Help

- service based project management experience
- one week non-credit course for 30 freshman
Career Fair

**Fall 2013**
267 employers attended
790 recruiters
3,800 students

**Fall 2012**
261 employers attended
762 recruiters
3,233 students

**Spring 2014**
217 employers attended
586 recruiters
2,220 students

**Spring 2013**
197 employers attended
543 recruiters
2,105 students

Fall 2014 Career Fair
Tuesday, September 23, 2014

Spring 2015 Career Fair
Tuesday, February 17, 2015
Externship Program

- 51 Applicants
- 38 Placements

Employers
- Cargill-Memphis
- Cargill-Eddyville
- Garmin
- Cerner
- Brinkmann
- Code Consultants
- Black & Veatch
- Mallinckrodt Pharmaceuticals
Mentor a Miner

• Helps students navigate their college and career search journey

• Students can search for mentors by keyword, industry, and job function, as well as other criteria.

Want to get involved? Register in our system https://www.myinterface.com/mst/mentor/
Employer Survey Fall 2013
Rate the importance of candidate skills/qualities using a rating scale of 1-5

<table>
<thead>
<tr>
<th>PERSONAL QUALITIES</th>
<th>PROFESSIONAL SKILLS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethical Behavior</td>
<td>Problem-solving Skills</td>
</tr>
<tr>
<td>4.67</td>
<td>4.66</td>
</tr>
<tr>
<td>Ability to Work in a Team</td>
<td>Analytical/Quantitative Skills</td>
</tr>
<tr>
<td>4.53</td>
<td>4.41</td>
</tr>
<tr>
<td>Initiative</td>
<td>Technical Skills</td>
</tr>
<tr>
<td>4.42</td>
<td>4.41</td>
</tr>
<tr>
<td>Communication Skills (Verbal)</td>
<td>Detail-Oriented</td>
</tr>
<tr>
<td>4.32</td>
<td>4.34</td>
</tr>
<tr>
<td>Interpersonal Skills</td>
<td>Computer Skills</td>
</tr>
<tr>
<td>4.31</td>
<td>4.23</td>
</tr>
<tr>
<td>Flexibility/Adaptability</td>
<td>Organizational Ability</td>
</tr>
<tr>
<td>4.3</td>
<td>4.1</td>
</tr>
<tr>
<td>Communication Skills (Written)</td>
<td>Leadership</td>
</tr>
<tr>
<td>4.25</td>
<td>4.08</td>
</tr>
<tr>
<td>Tactfulness</td>
<td>Strategic Planning Skills</td>
</tr>
<tr>
<td>4.05</td>
<td>3.72</td>
</tr>
<tr>
<td>Friendly/Outgoing Personality</td>
<td>Entrepreneurial Skills/Risk Taker</td>
</tr>
<tr>
<td>3.97</td>
<td>3.48</td>
</tr>
</tbody>
</table>

RATING SCALE: 1=not important, 2=not very important, 3=somewhat important, 4=very important, and 5=extremely important
Current Capital Projects

Powell House
New home for Student Diversity, Outreach and Women’s Programs
Fall 2014 Completion
Current Capital Projects

Geothermal Project, Fall 2014 Completion

- Will cut annual energy use by 50%
- Will reduce carbon dioxide emissions by 25,000 tons per year
- Will cut water usage by 8,000,000 gallons per year
Campus Master Plan

- Open forums held in fall and winter
- Input from multiple stakeholders
- Arrival district
- Focuses activity at the heart of campus
One-year Demographic Shifts

<table>
<thead>
<tr>
<th>Category</th>
<th>Increase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Under-represented minority students</td>
<td>↑5.5%</td>
</tr>
<tr>
<td>Female students</td>
<td>↑6.2%</td>
</tr>
<tr>
<td>Graduate students</td>
<td>↑10%</td>
</tr>
<tr>
<td>Non-resident international students</td>
<td>↑22.4%</td>
</tr>
<tr>
<td>Out-of-state students</td>
<td>↑11%</td>
</tr>
<tr>
<td>Distance and online students</td>
<td>↑11%</td>
</tr>
</tbody>
</table>

Record enrollment: 8,129 students
National and International Reach

We now have students from every U.S. state

6,145 Undergraduate
- 1,125 new freshmen
- 375 new transfers

1,984 Graduate

8,129 Students

55 countries are represented by S&T international students
Tradition of Excellence

ACT averages for incoming freshmen

- Nation: 21.1
- State: 21.6
- UM System: 25.6
- S&T: 27.9
S&T Top Majors

- Mechanical Eng.
- Comp. Science
- Electrical Eng.
- Eng. Management
- Civil Eng.
- Business & IT
- Chemical Eng.
- Mining Eng.
- Geological Eng.
- Bio Sciences
Business and IT: A Growing Department

Degree Options
- Bachelor of Science
  - Business and Management Systems
  - Information Science and Technology
- Master of Business Administration
- Master of Science in Information Science & Technology

Graduate Certificates
- Business Intelligence
- Digital Media
- Digital Supply Chain Management
- Electronic and Social Commerce
- Enterprise Resource Planning
- Entrepreneurship and Technological Innovation
- Human-Computer Interaction
- Management and Leadership
- Mobile Business and Technology
- Project Management (Information Systems)
Research: A Continued Focus

Core Research Areas

- Electrical and Cyber Systems
- Energy
- Environment
- Civil Infrastructure
- Manufacturing
- Materials

FY13 research awards: $51.5M
State Funding

Governor’s recommended increases for higher education:

- 5% for performance funding
- 3% for STEM
- $17 million “Bright Flight”
- $1 million for cutting-edge innovative campus programs
Opportunity to expand STEM

Projected STEM job growth higher than all other occupations combined

- Missouri Department of Economic Development

Missouri will have an additional 143,000 STEM jobs to fill by 2018

- U.S. Bureau of Labor Statistics
Tradition of Excellence

#3
• Percentage of degrees granted in STEM disciplines

U.S. News & World Report

$60,000
• Average starting salary for undergraduates

Highly recruited
• Some of the largest career fairs in the nation
Strategic Planning

“If you don’t know where you are going, any road will get you there.” – Lewis Carroll
Our Strategy

Missouri S&T will provide by 2020 a top return on investment among public research universities to students, employers, research partners and donors through extraordinary access to renowned expertise, services and experiential learning opportunities.

Missouri S&T Strategy Statement
Early Progress

• 100 additional faculty
• Search for key campus leaders
  – Provost and executive vice chancellor
  – Vice provost and deans
  – Vice chancellor for global and strategic partnerships
• Centralize corporate relations
Signature Areas

- Advanced Manufacturing
- Advanced Materials for Sustainable Infrastructure
- TBD
- TBD
Current Initiatives

1:1 lab match
The S&T of Tomorrow
Thanks!

Any questions?
Lunch Topic Workplace Ethics

- **Reneging** on Job Offers
- **Expectations** in the workplace

**Ethical behavior** was rated the most important personal quality by employers in the Fall 2013 survey.
Professional Development Plan

**FRESHMEN**
- **Attend** New MinerJobs Users Orientation
- **Register** in MinerJobs and GoinGlobal
- **Create** a resume and have it reviewed
- **Check-out** career.mst.edu
- **Attend** a COER workshop
- **Start** a “Career Development File”
- **Learn** about different career paths
- **Volunteer** or **Join** a design team/student organization
- **Buy** a suit or **Visit** the suit closet
- **Prepare** your Power Introduction
- **Network**!

**SOPHOMORE**
- **Update** your resume
- **Re-register** and update MinerJobs and GoinGlobal
- **Join** campus organizations
- **Consider** co-op, internship, externship, & study abroad
- **Attend** career workshops
- **Schedule** a practice interview
- **Take** Strengths Quest assessment
- **Start** building your online brand
- **Research** companies
- **Attend** BOTH career fairs
- **Develop** relationships with faculty and employers
- **Begin** a reference page

**JUNIOR**
- **Become** a leader in an organization
- **Update** your resume
- **Re-register** and update MinerJobs and GoinGlobal
- **Secure** a co-op or internship
- **Attend** COER workshops to gain professional skills
- **Schedule** a practice interview
- **Attend** BOTH career fairs and continue networking
- **Write** a cover letter
- **Investigate** Grad School
- **Maintain** your online brand
- **Communicate** with your references about your job search

**SENIOR**
- **Adapt** your resume to each job
- **Re-register** and update MinerJobs and GoinGlobal
- **Purchase** a business suit
- **Attend** the COER Etiquette Dinner
- **Research** average starting salaries for your major
- **Attend** BOTH career fairs and continue networking
- **Take** graduate school entrance exams
- **Evaluate** job offers; seek assistance from COER Career Advisors if needed
- **Report** your post-graduation plans to COER
- **Join** your local alumni chapter

Career Opportunities & Employer Relations (COER)
304 Norwood Hall • career.mst.edu
career@mst.edu • 573-341-4343
Leadership Development Plan

• Explore your community
  – Student organizations
  – Campus events
  – Community service
  – Development opportunities

• Sharpen and learn new skills
  – Organization roles
  – Miner Challenge
  – Work experience

• Challenge yourself
  – Take on lead roles
  – Professional conferences
  – Research Fellow

• Mentor others
  – Governing officer/leader
  – Advisory roles
  – Present at professional conferences
Corporate Development Council
Building mutually beneficial partnerships that add value

1. Inspire creative thinkers
2. Raise visibility

THE STRATEGY

Missouri S&T will provide by 2020 a top return on investment among public research universities to students, employers, research partners and donors through extraordinary access to renowned expertise, services and experiential learning opportunities.

3. Ensure return on investment
4. Increase meaningful interactions

Lifelong Success
Creativity

Integrity
Sustainability

Partnerships
Inclusion