RIVERFRONT CAMPUS / WESTERN ILLINOIS UNIVERSITY – QUAD CITIES

ICCCFO CONFERENCE – STEM Growth via Strategic Leveraging / Private, Local, and Academic Resources

HOLABIRD & ROOT
252,000
STEM bachelor’s degree recipients

80,000
STEM master’s degree recipients

277,000
STEM vacancies per year in the US, which could be filed by...

20,000
STEM ph.D. recipients

40,000
STEM associate degree recipients

50,000
H-1B visa holders

... and
11.4 million
STEM degree holders
who currently work outside of STEM

Robert N. Charette / IEEE Spectrum
QUANTITY / THERE ARE MORE QUALIFIED STEM DEGREE HOLDERS THAN AVAILABLE JOBS.

LOCATION / AFTER COLLEGE, STUDENTS FOLLOW AVAILABLE STEM JOBS TO ONE OF 366 MAJOR METROPOLITAN MARKETS, RESULTING IN A ‘BRAIN DRAIN’ OF SMALL MARKET CITIES.
ICCCFO CONFERENCE / NATIONAL MIGRATION OF STEM WORKERS
-10,498 / ANNUAL NET LOSS OF ILLINOIS STUDENTS GOING TO OUT OF STATE SCHOOLS

-19,844 / ANNUAL NET LOSS OF ILLINOIS WORKERS WITH 1+ COLLEGE DEGREE
ROCK ISLAND COUNTY / RELOCATION BREAKDOWN OF BUSINESS, MANAGEMENT, SCIENCE, AND ARTS WORKERS DURING THE PAST 5 YEARS

24,531 / Non-Movers

1,717
Moved within Rock Island County

312
Moved within Illinois

795
Moved to different State

2,842 / Movers
RETENTION / HOW CAN THE COMMUNITY OF MOLINE PARTNER WITH PRIVATE BUSINESSES AND WESTERN ILLINOIS UNIVERSITY – QUAD CITIES TO RETAIN RECENT STEM GRADUATES?
1. EXECUTE A COMPREHENSIVE ECONOMIC DEVELOPMENT PLAN TO STIMULATE BALANCED GROWTH IN THE QUAD CITIES REGION.

   - ATTRACT NEW BUSINESSES WITH TARGET INDUSTRIES: ADVANCED MANUFACTURING, DEFENSE, LOGISTICS, FOOD + PACKAGING, AND PROFESSIONAL AND TECHNICAL SERVICES.
   
   - SUPPORT EXPANDING EXISTING BUSINESSES.
   
   - FOSTER ENTREPRENEURSHIP AND NEW BUSINESS CREATION.
   
   - ESTABLISH THE QUAD CITIES AS A MANUFACTURING INNOVATION CLUSTER.
QUAD CITIES CHAMBER / REGIONAL GROWTH PLAN

2. ENHANCE THE LIVABILITY AND ATTRACTIVENESS OF THE QUAD CITIES.
   - ADVANCE REGIONAL RIVERFRONT DEVELOPMENT.
   - CREATE INVITING GATEWAYS TO THE REGION.
   - ADVANCE VIBRANT DOWNTOWNS AND OTHER RETAIL AND COMMERCIAL CORRIDORS.
   - PUSH TRANSPORTATION AND INFRASTRUCTURE IMPROVEMENTS TO SUPPORT ECONOMIC AND COMMUNITY DEVELOPMENT.
   - SUPPORT AND SUSTAIN KEY CULTURAL INSTITUTIONS AND AMENITIES CENTRAL TO WORKFORCE ATTRACTION AND RETENTION.
QUAD CITIES CHAMBER / REGIONAL GROWTH PLAN

3. ACTIVELY ENGAGE THE COMMUNITY IN SUPPORTING THE ROCK ISLAND ARSENAL
   - LEAD THE CHAMBER MILITARY AFFAIRS COUNCIL AND ROCK ISLAND ARSENAL ALLIANCE.
   - IMPLEMENT A STRATEGIC COMMUNICATIONS PLAN.
QUAD CITIES CHAMBER / REGIONAL GROWTH PLAN

4. ENSURE A HIGH-QUALITY WORKFORCE TO SUPPORT ECONOMIC AND COMMUNITY VITALITY.

   - ENGAGE BUSINESS LEADERS IN AFFECTING HIGH PERFORMANCE K-12 EDUCATION ACROSS THE REGION.

   - ALIGN POST SECONDARY EDUCATION AND TRAINING WITH ECONOMIC AND COMPANY DEMAND.

   - CULTIVATE THE ATTRACTION AND RETENTION OF OUR NEXT GENERATION OF NEW TALENT.

   - INCREASE DIVERSITY IN LEADERSHIP OF LARGE COMPANIES AND ORGANIZATIONS.
RENEW MOLINE / RECENT PROJECTS

BASS STREET LANDING

KONE CENTER

JOHN DEERE COMMONS / WORLD HEADQUARTERS

- VISITOR’S PAVILION AND STORE
- CENTRE STATION METROLINK
- HOTEL AND CONFERENCE CENTER

THE MILLS AT RIVERBEND COMMONS
RENEW MOLINE / RESULTS

153 / QUAD CITIES ECONOMIC STRENGTH RANKING AMONG THE NATION’S 366 METROPOLITAN AREAS. A 30% INCREASE FROM LAST YEAR.

833 / DIRECT JOBS ADDED AS A RESULT OF ELEVEN NEW CHAMBER OF COMMERCE PROJECTS.

131 / NUMBER OF RIBBON CUTTINGS AND GROUND BREAKINGS REPRESENTING 1,100 NEW JOBS
RENEW MOLINE / RESULTS

16 / QUAD CITIES RANKS 16TH IN THE NATION FOR HIGH-TECH JOB GROWTH.
JOHN DEERE + COMPANY / WORLD HEADQUARTERS

INTERNSHIPS

PART-TIME STUDENTS

NEW GRADUATES / FULL TIME DEVELOPMENT PROGRAM

- AGRICULTURAL + TURF ENGINEERING
- CONSTRUCTION + FOREST ENGINEERING
- POWER SYSTEMS ENGINEERING
- INFORMATION TECHNOLOGY
QUAD CITY MANUFACTURING LAB / ROCK ISLAND

TRAINING, APPRENTICESHIP, AND MENTORING PROGRAMS / CONTRACTUAL AND INFORMAL RELATIONSHIP WITH WESTERN ILLINOIS UNIVERSITY.

LOCALIZED TRAINING / ENCOURAGE AND FACILITATE COLLABORATION BETWEEN RESEARCH, MANUFACTURING, AND EDUCATIONAL INSTITUTIONS WITHIN THE ILLINOIS / IOWA QUAD CITY REGION.

NOT-FOR-PROFIT / FOCUSED ON JOB RETENTION AND CREATION THROUGH THE INTRODUCTION OF NEW MATERIALS AND MANUFACTURING TECHNOLOGIES.
“THE PROGRAM IS UNIQUE BECAUSE OF OUR STRATEGIC PARTNERSHIPS WITH INDUSTRY IN THE REGION. THERE ARE AMPLE OPPORTUNITIES FOR PRACTICAL, HANDS ON, EDUCATIONAL ENGINEERING EXPERIENCES THROUGH OUR LINKS TO BUSINESSES, MANUFACTURERS, INDUSTRY, AND THE DIGITAL MANUFACTURING DESIGN INNOVATION INSTITUTE (DMDII).

STUDENTS CAN START PAID INTERNSHIPS AS EARLY AS THEIR SOPHOMORE YEAR IF ENROLLED IN OUR ENGINEERING PROGRAM, HAVE THE OPPORTUNITY TO “EARN WHILE THEY LEARN” AND, AT THE SAME TIME, GAIN INVALUABLE PRACTICAL EXPERIENCE. OUR SENIOR CAPSTONE DESIGN PROJECTS TYPICALLY ARE COMPLETED WITH INDUSTRY, OFTEN AT THEIR FACILITY, AND MANY TIMES RESULT IN AN OFFER OF EMPLOYMENT BEFORE GRADUATION.”
INDUSTRY PARTNERSHIP / RESULTS

60% / OF STUDENTS IN THE ‘INDUSTRY PARTNERSHIP’ PROGRAM WERE HIRED BY THE COMPANY WHERE THEY SERVED AS INTERNS.
WIU ENGINEERING DEPARTMENT / CURRICULUM

GENERAL EDUCATION 33 HOURS

CORE ENGINEERING 51 HOURS

MATH 15 HOURS

PHYSICS 15 HOURS
RIVERBEND COMMONS / RIVERFRONT PROPERTY

PARTNERSHIP WITH WESTERN ILLINOIS / THE CITY OF MOLINE PLEDGES TO DEVELOP 15.5 ACRES ADJACENT TO THE CAMPUS.

AMENITIES / PRIVATE INDUSTRY WILL PROVIDE HOUSING, FOOD VENUES, RETAIL, AND COMMERCIAL SPACES