JMU OUTREACH
PROGRAMS & SERVICES

REMY PANGLE
WELCOME TO JMU!

Have you ever visited JMU before with your students?

What did you see/do/tour?
WELCOME TO JMU!

• A public regional university
• ~20,000 students across all academic programs with ~1,700 enrolled within a graduate program

Our Colleges:
• Arts and Letters
  School of Communication Studies, Department of English, Department of Foreign Languages, Literatures and Cultures, Department of Justice Studies, School of Media Arts and Design, Department of Philosophy and Religion, Department of Political Science, Department of Sociology and Anthropology, School of Writing, Rhetoric and Technical Communication
• Business
  School of Accounting, Department of Computer Information Systems and Management Science, Department of Economics, Department of Finance and Business Law, Program of International Business, Department of Management, Department of Marketing
• Education
  Department of Early, Elementary and Reading Education, Department of Exceptional Education, Department of Learning, Technology and Leadership Education, Department of Middle, Secondary and Mathematics Education, Department of Military Sciences
• Integrated Science and Technology
  Department of Communication Sciences and Disorders, Department of Computer Science, Department of Health Sciences, Department of Integrated Science and Technology, Department of Kinesiology, Department of Nursing, Department of Psychology, department of Social Work
• Science and Mathematics
  Department of Biology, Department of Chemistry and Biochemistry, Department of Geology and Environmental Science, Department of Mathematics and Statistics, Department of Physics and Astronomy
• Visual and Performing Arts
  School of Art, Design and Art History, School of Music, School of Theatre and Dance
• The Graduate School
OUTREACH PROGRAMS & SERVICES

• JMU campus visits
  • Planetarium, SoS, Mineral Museum, Environmental Stewardship Tour, Wind and Solar Facilities, stadium, Forbes Center, other JMU facilities
  • For groups or specific classes/clubs
• JMU students/faculty/staff visit your classroom/ provide resources
  • JMU Ambassadors, STEM/CWE Kit Library
• Recruitment events/resources
  • CHOICES, ISAT Open House, Admissions Counselors
• Professional Development
  • Cyber security, JMU STEM Workshop (Feb),
• K12 Programs/Camps
  • Space Camp, College for Kids, Be the Chemist, Music camps, Art Camps, athletic camps,
• Dual Enrollment courses
  • Geospatial Semester, Wind Energy, Computer Science, etc.
• Centers on Campus
  • Center for STEM Education & Outreach, Center for Wind Energy, Ghandi Center, Furious Flower (Poetry Center), etc.
CENTER FOR STEM EDUCATION & OUTREACH
• 3 Co-Directors from across campus
  • John Almarode – College of Education
  • Joy Ferenbaugh/Kyle Gipson – College of Integrated Science & Engineering
  • Anthony Tongen – College of Science & Math

• Priorities
  • Build communities and collaborations, on and off campus, to support STEM Education and Outreach
  • Sponsor events focusing on improving K-12 STEM Education
  • Create an online resource for JMU STEM Education and Outreach
ON-CAMPUS RESOURCES

• Center for Wind Energy
  • Sustainable energy in VA

• Edith J. Carrier Arboretum
  • Botanical preserve

• J.C. Wells Planetarium
  • Digital, full-dome system

• Mineral Museum
  • Over 600 crystals and gemstones

• Science on a Sphere
  • Animated global theater
A FEW OUTREACH EXAMPLES

• Website/Outreach portal
  • [www.jmu.edu/stem/outreach](http://www.jmu.edu/stem/outreach)

• USA Science and Engineering Festival

• Meet the Scientist

• Nanodays

• Geospatial Semester

• STEM Day at the Valley Mall
OFFICE OF OUTREACH & ENGAGEMENT
PK-12 PROGRAMS

Saturday Programs
D.I.G.I.T.A.L. College for Kids
Saturday Morning Physics
“You Be the Chemist”
Expanding Your Horizons

Summer Programs
Robotics Camp
Summer Honors Institute
Space Explorers Camp
TEACHER PROGRAMS

Certificate Programs
- Autism Spectrum Disorders
- Educational Technology
- K-12 Gifted Education

Master’s of Education Programs
- Educational Leadership
- Educational Technology
- Mathematics
- K-8 Math Specialist

Individual Courses for Recertification
- Music and Special Learners
- ISTE-T Certification
- PBS Teacherline

Possibilities for Partnerships
- Customized Courses
- Dual Enrollment
- Off-campus Degree Programs
Renewable Energy Technologies

- Weather stations
- MET Towers
- Small Wind Systems
- Solar Energy Systems
Renewable Energy Technology Programs

- Wind for Schools
  - CWE provides met tower installations
  - CWE provides small turbine project development assistance
  - CWE advises student research projects
  - NEED and KidWind have curricula

- Solar for Schools
  - CWE provides solar PV loans and project development assistance
  - NEED has curricula
  - Dominion has grant program
Educational Resources

- All resources are FREE online at our website – wind.jmu.edu/education
- We can help you build renewable energy modules using available curricula and choose the best activities for your goal
- We can lend you classroom kits, books and DVDs to use in your classroom
- We can visit your classroom and work with your kids
- You can bring your class to JMU to see our technology and do activities
- We can hold a teacher training workshop for your school or district
- Participate in the KidWind Challenge!

wind.jmu.edu
KidWind Challenge 2016

- Middle (4th-8th grade) and High School (9th-12th grade) Divisions
- Design, build and test working wind turbine and present to judges about their design, documentation and knowledge
- Online Challenges
- Virginia Qualifying Challenges
  - Virginia Beach (March 15th at Aquarium)
  - Northern Virginia (April 6th at GMU)

Winners from Online and Qualifying Challenges invited to National Challenge at the AWEA WindPower Conference in New Orleans at the end of May
1. Contact us ASAP with your group logistics and areas of interest

2. Leave ample time to plan – larger groups take longer to plan for

3. We plan to have pre-planned packages for schools – JMU visits and classroom visits
**CONTACTS**

- **STEM Center**
  540.568.8841
  [www.jmu.edu/stem/outreach/](http://www.jmu.edu/stem/outreach/)
  [stemedcenter@jmu.edu](mailto:stemedcenter@jmu.edu)

- **Outreach & Engagement**
  540.568.4253
  [www.jmu.edu/outreach](http://www.jmu.edu/outreach)
  [outreach@jmu.edu](mailto:outreach@jmu.edu)

- **Center for Wind Energy**
  540.568.8770
  [wind.jmu.edu](http://wind.jmu.edu)
  [VAcenter4windenergy@jmu.edu](mailto:VAcenter4windenergy@jmu.edu)

- **Middle School Visit Program**
  Bev Walker,
  [walke2bm@jmu.edu](mailto:walke2bm@jmu.edu)

- **CISE K12 Outreach Committee**
  Remy Pangle,
  [panglerm@jmu.edu](mailto:panglerm@jmu.edu)