NIU STEAM
Science, Technology, Engineering, Arts, Mathematics

Pati Sievert,
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NIU STEAM
Family of Programs

NIU STEAM Center for P-20 Engagement
Broader Impacts Programming Options

Drag and drop BI programming
*well-established programming*

Reach 50,000 persons annually including diverse audiences -

- Age, Gender, Ethnicity, Geography
- Socio-economic status

Resulting in a large regional impact for relatively low effort.

Innovative BI programming
*created to support PI vision*

Achieve faculty visions for reaching underrepresented persons or improving STEM education and educator development or reach the general community.

Faculty can focus on outcomes and not logistics by benefiting from P-20 Center relationships with schools and community STEM partners.
Proposal and Implementation Support

- Not a cookie-cutter process
- We will work with you to identify and implement activities that fit your priorities and maximizes the synergy of our combined resources.

https://www.niu.edu/niusteam/
Cultivate Curiosity and Creativity
Foster Enthusiasm for Learning
Persevere and Learn through Failure
Explore Connections
Use Authentic Learning Tasks
Prepare for the Future
NIU STEAM Framework

• STEAM Concepts and Content
• Career Connections
• Problem Based Learning
• 21st Century Skills
• Transdisciplinary Approaches
• Growth and Persistence
Possible Drag and Drop Broader Impacts Activities

• Engaging participants at STEMfest

• Working with high school students in a summer residential program
  
  90 minute session in an existing camp to a full summer of research

• Talking with community members at STEM Cafés

• Visiting schools or hosting high school students in your lab

• Guest speaker in Podcasts of different topics and depths
Possible Custom Broader Impacts Programs

• Create innovative lesson plans and educational resources for K-12
• Produce YouTube Videos or Podcasts
• Reach underrepresented youth in camps, workshops, or non-credit courses
• Extend to rural communities
• Brainstorm with one of us or bring your ideas to us to make your dreams real programs!
Marketing

- 2000+ on our bi monthly e-blast
- Postcard invites mailed for special events
- NIU Today articles
- Press Releases
- Personalized infographics
- Website pages
- Youtube channel videos
- Podcast channels
- Facebook, Instagram, Twitter
Measureable Outcomes

- Exit surveys – online and paper
- Numbers - attending, clicking, opening
- Pre/post differences - understanding, beliefs, skills
- Focus groups, interviews
- Non-credit certifications
- Rubric-based changes in skills
- Customizable evaluation reports
Primary Contact in NIU STEAM for Assistance with BI Activities

**Amy Jo Clemens**

*Director*

Center for P-20 Engagement

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Or

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