University of Nebraska Initiatives for Ethanol and Bioprocessing Industries

Nebraska Ethanol Board EHS Summit 2017

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Outline

• Nebraska Manufacturing Extension
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• Industry Relations
• Research
Nebraska Manufacturing Extension

• Consulting Services
• Engineering Internship Program
• Training and Professional Development
P3 Internship Program

• Partners in Pollution Prevention (P3) Internship Program
  • Funded by the NDEQ, EPA Region 7, and Nebraska businesses
  • Engineering students attending UNL are placed at Nebraska businesses working on environmental, sustainability, or efficiency projects
Training and Professional Development

• Past Courses
  • Process Control Essentials for the ethanol industry
  • Process Safety Bootcamp

• Future Course Offerings
  • Process Control Essentials
  • Implementing OSHA Process Safety Management
Nebraska Ag Extension

- Field to Food Project
- Stover Harvest
- Fuel Choices
- Clean Air
Industry Relations

• Nebraska Department of Economic Development
  • Research and Development performed at the University of Nebraska using
    faculty and/or facilities
    • 1:4 match for value added agriculture
    • Up to $500,000
Research

- Nebraska Center for Energy Sciences Research
  - Funded by NPPD
  - Provides seed grant funding for biofuel and bioproduct research

- Many Other Research Activities
  - Biological Process Development Facility
  - Industrial Ag Products Center
  - New bioproducts from the ethanol platform
  - Coproduct studies for animal science