

Institutional Obstacles to Research and Implementation Activities

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Introduction

- Introduction
 - RHIT Experience
 - Hot Topics
 - Conclusions
- Possible Research Issues at a University:
- ▶ Contracting
 - ▶ Non-profit status
 - ▶ Conflict of interest
 - ▶ Ownership & publication of results
 - ▶ Liability
 - ▶ Risk management
 - ▶ Research ethical practices (IRB)
 - ▶ Controversial research

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- Why would a University participate in research?
- ▶ Community outreach
 - ▶ Support students
 - Research experience
 - Funding
 - Real-world projects
 - ▶ Raise academic profile

RHIT Experience

- Introduction
- RHIT Experience
 - ▶ “Research” at a teaching institution
 - ▶ First:
 - YES!!! We do have funded research projects!
 - ▶ Primary Goal:
 - Support Students!
 - Research experience
 - Real world projects
- Hot Topics
- Conclusions

It's 18 Straight Years as Nation's Top-Ranked Undergraduate Engineering College

September 13, 2016

The votes have been counted and for the 18th consecutive year, Rose-Hulman has earned distinction as America's No. 1 ranked undergraduate engineering college, based on a national survey of deans and senior faculty conducted by U.S. News & World Report for its 2017 college guidebook.

In addition, Rose-Hulman was ranked No. 1 in five academic programs: [chemical engineering](#), [civil engineering](#), [computer engineering](#), [electrical engineering](#), and [mechanical engineering](#).

Rose-Hulman's ranking is among colleges that offer the bachelor's or master's as its top degree in engineering. The list includes elite institutions throughout America, including the nation's military academies.



RHIT Experience

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- Real-World Projects through:
Senior Design/Capstone
- ▶ Students work with real clients
 - Must scope the project
 - Determine client needs
 - Make clients aware of limitations
 - ▶ Faculty as design team advisers
 - ▶ Faculty as technical experts

Hot Topics

- Introduction
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 - Conclusions
- VMT (Vehicle Miles Traveled)
– Research vs. Implementation
- Older Driver Licensing
– Research vs. Implementation
- Bicycle/Vulnerable Road User Protection
– Research vs. Implementation

Conclusions

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 - Conclusions
- ▶ Universities are an excellent resource
 - ▶ Researchers may not know your end goals / why you need the research
 - ▶ Don't assume researchers know the barriers to implementation
 - Political
 - Economic
 - Public perception
 - ▶ Researchers should work on asking the right questions too.