

NSF ATE Award Number 2000454

Developing an E-Book and Other Interactive Instructional Materials for Technical Education in Vacuum Technology

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This is a new grant that started on October 1, 2020 to create more appropriate instructional resource options for faculty who teach vacuum technology and more relatable content for the students learning concepts in vacuum technology.

The project focuses on developing the following educational materials:

- E-book for Rough Vacuum Systems that is enhanced with animations, simulations, video demonstrations and interactive problem-solving tools;
- Laboratory Manual for students that is enhanced with video demonstrations of equipment operation;
- Instructor's Guide with video demonstrations of equipment operation and resource inventory for incorporating rough vacuum labs into new or existing coursework.

As these educational materials are being developed, more information can be provided about each of these resources.