



Bryan Lewis

PhD, PE

Regional Equipment Loss Consultant

Department

Equipment Services

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Locations

Salt Lake City, UT
Boise, ID

Biography

Dr. Bryan Lewis is a Professor of Mechanical Engineering at Brigham Young University—Idaho, where he teaches courses in numerical analysis, fluid mechanics, thermodynamics, and product design. In addition to his academic role, Dr. Lewis is a consultant for the YA Group. He is also a licensed professional engineer (PE) in Texas and Idaho.

Before entering academia, Dr. Lewis worked as a senior research engineer at Halliburton Energy Services, where he specialized in oil field research and product development. His work included the development of hydraulic fracturing pumps, sand transport systems, and fluid-sand blending equipment. Notably, he was the lead engineer for Halliburton's sound-mitigated hydraulic fracturing units, a project that required close collaboration with manufacturing firms, field operations, oil companies, and state environmental regulators.

Dr. Lewis earned his PhD in Mechanical Engineering from Pennsylvania State University, where his research focused on computational fluid dynamics, specifically in hydroturbines and high-performance computing. As part of his PhD work, he also participated in the Global Engineering Teams program, collaborating with graduate engineers from South Africa to design and develop a rural mobile health clinic for the South African Department of Health. The mobile clinic was successfully manufactured and entered service in 2015.

In addition to his academic and professional achievements, Dr. Lewis is deeply involved in leadership roles with the American Society of Mechanical Engineers (ASME). He has served as the faculty advisor for the BYU-Idaho ASME Student Section since 2017, the regional student section coordinator for the US/Canada Northwest Region in 2019, and as a member of the executive committee for the Member Development and Engagement Sector in 2020. In 2021, Dr. Lewis was elected chair of the ASME Idaho Section.

Credentials

- PhD | PhD, Mechanical Engineering
- PE | Professional Engineer

Professional Experience

- 2023 - Current | Regional Equipment Loss Consultant | YA Group
- 2017 - Current | Professor of Mechanical Engineering | Brigham Young University
- 2014 - 2017 | Senior Research and Development Engineer | Halliburton Energy Services
- 2010 - 2014 | NDSEG Research Fellow | The Pennsylvania State University

Education

- The Pennsylvania State University - Ph.D. - Mechanical Engineering - Centre

County - Pennsylvania

- The Pennsylvania State University - Master of Science - Mechanical Engineering - Centre County - Pennsylvania
- Brigham Young University - Bachelor of Science - Mechanical Engineering - Provo - Utah

Affiliations

- American Society of Mechanical Engineers
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