

# NATIONAL LABORATORY OF THE ROCKIES

## Energy Execs Sample Syllabus

<b>Session 1 (3 days)</b>	Introduction to NLR, Energy Systems 101, Energy Systems Integration, Grids, Cybersecurity and Defense, Buildings
<b>Session 2 (3 days)</b>	Bioenergy and Bioeconomy, Transportation and Fuels, Battery Storage
<b>Session 3 (3 days)</b>	NLR's Alaska Campus and Partnerships, ARIES, Flatirons Campus Tour
<b>Session 4 (3 days)</b>	Class Project Presentations, Graduation, and Alumni Event

### Session 1

#### **Energy Systems Integration, Grids, Cybersecurity and Defense, and Buildings**

- Introductions and Networking
- NLR Overview
- Energy Systems 101
- Building Design and Construction
- Utility-Scale Energy Generation, Grid Integration, and Associated Manufacturing Opportunities
- Cybersecurity Overview
- NLR Energy Systems Integration Facility Tour
- Hosted Evening Reception

### Session 2

#### **Bioenergy and Bioeconomy, Transportation and Fuels, Battery Storage**

- Analytical, Economic, and Resource Tools
- Transportation Systems
- Hydrogen Overview
- NLR Field Test Laboratory Building Tour
- NLR Biofuels and Vehicle Testing Facilities Tours

### Session 3

#### **Energy Systems**

- ARIES
- Alaska Campus and Partnerships
- Energy System Resilience
- Flatirons Campus Tour

### Session 4

#### **Class Project Presentations, Graduation, and Alumni Event**

- Project Presentations
- Graduation
- Alumni Networking Event