

# **Power and Energy Systems Outreach and Workforce Training Workshop**

**Virtual Event**

**October 24, 2020**

**University of Rhode Island**

**Kingston, Rhode Island**

The electrical grid is arguably the most essential infrastructure in modern society since most critical sectors are inherently contingent on reliable supply of electricity. As the electrical grid becomes increasingly “smarter”—more integrated with control systems, communication technologies, and computer processing—it has also become more vulnerable to both cyber and physical threats. In addition to research and technology development to improve the security, resilience, and reliability of the grid, a strong and talented workforce can lessen vulnerabilities to such a critical infrastructure.

This one-day Power and Energy Systems Outreach and Workforce Training Workshop will focus on outreach and knowledge development to meet the critical needs of the future workforce in this area. This Workshop includes exciting presentations from experts in the field, information about the pathway to graduate school, professional engineering exam, and career and co-op opportunities in the energy sector.

We really hope that our workshop has sparked your interest. For more information about the workshop or to register please visit our website at <https://web.uri.edu/dura/2020workshop/>

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**Workshop Zoom Meeting Link:**

<https://uri-edu.zoom.us/j/93223115512?pwd=V1Z4NGxRZIRPYIA5NGxwYVBjYkZlZDZ09>

**Meeting ID: 932 2311 5512**  
**Passcode: 451617**

One tap mobile

+19292056099,,93223115512#,,,,,0#,,451617# US (New York)  
+13017158592,,93223115512#,,,,,0#,,451617# US (Germantown)

Dial by your location

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+1 301 715 8592 US (Germantown)  
+1 312 626 6799 US (Chicago)  
+1 669 900 6833 US (San Jose)  
+1 253 215 8782 US (Tacoma)  
+1 346 248 7799 US (Houston)  
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Join by SIP

[93223115512@zoomcrc.com](mailto:93223115512@zoomcrc.com)

Join by H.323

162.255.37.11 (US West)  
162.255.36.11 (US East)  
115.114.131.7 (India Mumbai)  
115.114.115.7 (India Hyderabad)  
213.19.144.110 (Amsterdam Netherlands)  
213.244.140.110 (Germany)  
103.122.166.55 (Australia)  
149.137.40.110 (Singapore)  
64.211.144.160 (Brazil)  
69.174.57.160 (Canada)  
207.226.132.110 (Japan)  
Meeting ID: 932 2311 5512  
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## Workshop Program

### Morning Theme: Technical Ingredients for Power and Energy

9:15 am to 9:30 am	<b>Opening Remarks</b> Raymond Wright, Dean, College of Engineering, University of Rhode Island
9:30 am to 9:50 am	<b>Modular 1: Are You Ready for the Era of Smart Grid - What are Needed Skills to Meet the Workforce Trend</b> Speaker: Lei Wu, Electrical and Computer Engineering, Stevens Institute of Technology
9:50 am to 10:10 am	<b>Modular 2: Power Grid Security and Resilience</b> Speaker: Yuzhang Lin, Electrical and Computer Engineering, University of Massachusetts, Lowell
10:10 am to 10:40 am	Q/A Session for Modular 1&2
10:40 am to 11:00 am	Virtual Coffee Break
11:00 am to 11:20 am	<b>Modular 3: Wind Energy Systems</b> Speaker: M Reza Hashemi, Ocean Engineering, University of Rhode Island
11:20 am to 11:40 am	<b>Modular 4: Solar and Energy Storage Design</b> Speaker: Gretchen A. Macht, Industrial & Systems Engineering, University of Rhode Island
11:40 am to 12:10 pm	Q/A Session for Modular 3&4
12:10 pm to 1:00 pm	Lunch Break (on your own)

### Afternoon Theme: Career Pathways in Power and Energy

1:00 pm to 1:20 pm	<b>Modular 5: Pathways to DOD Career Opportunities</b> Speaker: Linda Larsen, Director of Education Outreach, Southeastern New England Defense Industry Alliance (SENEDIA)
1:20 pm to 1:40 pm	<b>Modular 6: Towards Licensed Engineers</b> Speaker: Davy McDowell, P.E., Chief Operating Officer, National Council of Examiners for Engineering and Surveying (NCEES)
1:40 pm to 2:10 pm	Q/A Session for Modular 5&6
2:10 pm to 2:30 pm	Virtual Coffee Break
2:30 pm to 2:50 pm	<b>Modular 7: Pathways to Graduate School</b> Speaker: Brenton DeBoef, Interim Dean, URI Graduate School
2:50 pm to 3:10 pm	<b>Modular 8: Networking and Job/CO-OP Hunting in the COVID Era</b> Speaker: Tammy Leso, Coordinator, Career & Internship and ELLC, URI
3:10 pm to 3:30 pm	<b>Modular 9: Energy Fellows Program</b> Speaker: Kate Venturini, Program Administrator & Kaylyn Keane, Program Coordinator, University of Rhode Island Cooperative Extension
3:30 pm to 4:00 pm	Q/A Session for Modular 7&8&9
4:00 pm to 4:10 pm	Closing Remarks

Note: All modular will be pre-recorded 20 minutes video, plus a live Q/A session;