

IDENTIFYING INFORMATION:

NAME: Borrelli, R. A.

PERSISTENT IDENTIFIER (PID): <https://orcid.org/0000-0003-0274-9253>

POSITION TITLE: Associate Professor

PRIMARY ORGANIZATION AND LOCATION: University of Idaho - Idaho Falls Center for Higher Education, Department of Nuclear Engineering and Industrial Management, Idaho Falls, Idaho, United States

Professional Preparation:

ORGANIZATION AND LOCATION	DEGREE (if applicable)	RECEIPT DATE	FIELD OF STUDY
University of California-Berkeley, Berkeley, California, United States	PHD	08/1999 - 12/2006	Nuclear Engineering
Worcester Polytechnic Institute, Worcester, Massachusetts, United States	MS	08/1996 - 05/1999	Civil/Environmental Engineering
Worcester Polytechnic Institute, Worcester, Massachusetts, United States	BS	08/1992 - 05/1996	Mechanical/Nuclear Engineering

Appointments and Positions

- 2021 - present Associate Professor, University of Idaho - Idaho Falls Center for Higher Education, Department of Nuclear Engineering and Industrial Management, Idaho Falls, Idaho, United States
- 2025 - present Affiliate Faculty – Electrical & Computer Engineering, University of Idaho, Idaho Falls, Idaho, United States
- 2019 - present Professional Engineer Faculty Restricted, State of Idaho, Idaho Falls, Idaho, United States
- 2019 - present Coordinator, Nuclear Power Plant Decommissioning and Used Fuel Management Professional Certificate, University of Idaho, Idaho, United States
- 2019 - present Affiliate, Boise State University Energy Policy Center, Boise, Idaho, United States
- 2015 - 2021 Assistant Professor, University of Idaho - Idaho Falls Center for Higher Education, Department of Nuclear Engineering and Industrial Management, Idaho Falls, Idaho, United States
- 2012 - 2015 Adjunct Professor, Diablo Valley Community College, Department of Architecture and Engineering , Pleasant Hill, California, United States
- 2009 - 2012 Postdoctorate Researcher, University of California-Berkeley, Department of Nuclear Engineering, Berkeley, California, United States
- 2007 - 2009 Research Associate, The University of Tokyo, Department of Nuclear Engineering/Management, Tokyo, Not Applicable, N/A, Japan

Products

- Peterson J, Haney M, Borrelli RA. An overview of methodologies for cyber security

vulnerability assessments conducted in nuclear power plants. Nuclear Engineering and Design. 2019; 346:75.

2. Lee J, Shigrekar A, Borrelli R. Hazard and operability analysis of a pyroprocessing facility. Nuclear Engineering and Design. 2019; 348:131.
3. Redfoot EK., Verner KM., Borrelli RA.. Applying analytic hierarchy process to industrial process design in a Nuclear Renewable Hybrid Energy System. Progress in Nuclear Energy. 2022 January; 145:104083.
4. Mena P, Borrelli RA., Kerby L. Expanded Analysis of Machine Learning Models for Nuclear Transient Identification Using TPOT. Nuclear Engineering and Design. 2022; 390:111694.
5. Root SJ, Zhao H, Borrelli RA, McKellar MG. Thermodynamic Analysis on Xenon Stripping to Shorten Restart Time in Molten Salt Microreactors. Nuclear Engineering and Design. 2023; 414:112606.

Certification:

I understand that I have been designated as a covered individual by the Federal funding agency.

I certify to the best of my knowledge and belief that the information contained in this Biographical Sketch Form is true, complete, and accurate. I understand that any false, fictitious, or fraudulent information, misrepresentations, half-truths, or omissions of any material fact, may subject me to criminal, civil or administrative penalties for fraud, false statements, false claims or otherwise. (18 U.S.C. §§ 1001 and 287, and 31 U.S.C. 3729-3733 and 3801-3812). I further understand and agree that (1) the statements and representations made herein are material to DOE's funding decision, and (2) I have a responsibility to update the disclosures during the project period of the award should circumstances change which impact the responses provided above.

I also certify that, at the time of submission, I am not a party in a malign foreign talent recruitment program. I further understand should I take action to involve myself with a Malign Foreign Talent Recruitment Program during the period of performance of the award, I must notify the recipient's Authorized Agent immediately, but no later than five business days of taking such action and immediately recuse myself from all DOE awards.

Certified by Borrelli, R. A. in SciENev on 2026-05-04 10:25:28