

# Nicole Ellison

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## Education

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University of Colorado Denver, Ph.D. 2017  
University of Colorado Denver, MSCE 2015  
Florida State University, BSCE, 1995

## Relevant Experience

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- ◆ Colorado State University (CSU) Teaching Assistant Professor responsible for teaching undergraduate Civil Engineering courses.
- ◆ National Renewable Energy Laboratory (NREL) Civil and Structural Engineer responsible for overseeing civil and structural construction improvement projects.
- ◆ Bridge and Culvert Program Manager NREL South Table Mountain Campus and Flatiron Campus 2019 through Present.
- ◆ NREL Sustainability Working Group Committee member.
- ◆ Department of Energy Better Buildings Smart Labs Accelerator Planning Committee member.
- ◆ 20+ years' experience in structural engineering design, evaluation, and repair of buildings, including training and mentoring younger engineers.
- ◆ Engineering and design experience include providing civil and structural design, analysis, specifications, and construction drawings; property condition assessments; full rehabilitation design of foundation and framing elements; preparation of repair plans; new, repair and rehabilitation construction compliance observations. Projects range in size from single-family or multi-family residential structures to commercial and municipal facilities.
- ◆ Forensic investigation experience includes assessment of damage caused by water, snow, wind, fire, flood, expansive soils, and consolidating soils. Experience includes litigation and support of insurance claims which include forensic analysis, preparation of expert reports and project management through resolution of the claim.

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## Employment History

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COLORADO STATE UNIVERSITY (CSU) TEACHING ASSISTANT PROFESSOR - Fort Collins, Colorado September 2020 to Present

NATIONAL RENEWABLE ENERGY LABORATORY - Golden, Colorado  
Lead Facility Engineer, May 2018 to August 2020

COLORADO SCHOOL OF MINES. – Golden, Colorado  
Adjunct Instructor, January 2017 to May 2020

UNIVERSITY OF COLORADO, DENVER. – Denver, Colorado  
Instructor, January 2017 to July 2017

UNIVERSITY OF COLORADO, DENVER. – Denver, Colorado  
Teaching Assistant, January 2016 to December 2016

PIE CONSULTING AND ENGINEERING. – Arvada, Colorado  
Senior Project Engineer, July 2012 to September 2015

MARTIN MARTIN CONSULTING ENGINEERS. – Lakewood, Colorado  
Senior Project Engineer, 1998 to MARCH 2012

MONROE AND NEWELL – Denver, Colorado  
Engineer in Training, 1995 to 1998

## Registrations

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Professional Engineer - Colorado

Professional Engineer - Texas

Leadership for Energy and Environmental Design, LEED AP

National Highway Institute Certified Bridge Inspector

## Professional Seminars as a Presenter

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- ◆ Presenter: NREL Planning, Management, Engineering and Construction Leadership Team, Golden, Colorado. The Importance of a Multidisciplinary Team in a Research Environment, March 28, 2018
- ◆ Presenter: Structures Congress, Denver, Colorado. Eliminating Exposure Category from Wind Design Pressure, April 8, 2017
- ◆ Presenter: 4th American Wind Engineering Conference, Miami, Florida. Comparison of Surface Roughness Assessment using GIS Mapping Technology to Field Measurements, August 15, 2016
- ◆ Presenter: 12th North American Masonry Conference, Denver, Colorado. Retrofit Brick Anchors, May 20, 2015
- ◆ Presenter: Structures Congress, Portland, Oregon. Surface Roughness and Its Effect on Wind Speed: Modeling Using GIS, April 24, 2015
- ◆ Presenter: University of Colorado, Denver, Colorado. Introduction to Structural Engineering, September 27, 2013
- ◆ Presenter: Community Associations Institute Spring Showcase, Denver, Colorado. Understanding and solving puddles, moats and ice rinks on your property, April 4, 2013

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## Publications

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- ◆ “Water Quality Testing on the Central Arroyo Detention Basin” Department of Energy, Office of Science’s Science Undergraduate Laboratory Internship Program 2019 publication, 2019
- ◆ “Eliminating Exposure Category from Wind Design Pressure”, Structures Congress Proceedings, 2017
- ◆ “Comparison of Surface Roughness Assessment using GIS Mapping Technology to Field Measurements” 4th American Wind Engineering Conference Proceedings, August 2016
- ◆ “Retrofit Brick Anchors” 12th North American Masonry Conference Proceedings, May 2015
- ◆ “Surface Roughness and Its Effect on Wind Speed: Modeling Using GIS” Structures Congress Proceedings, April 2015
- ◆ “Wind Load Factors Used in Design and Construction,” Test Your Claims Knowledge, PLRB/LIRB Frontlines Newsletter, January 21, 2013

## Outreach

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- ◆ Department of Energy National Renewable Energy Laboratory (NREL) Science Undergraduate Laboratory Intern Mentor Summer 2019.
- ◆ Girls Inc. of Metro Denver VIP Event, May 8, 2019.
- ◆ GO STEM Event, Wind at Your Fingertips, Northglenn High School, February 15, 2019.
- ◆ Women's Mentor Networking Event, NREL, August 21, 2018.
- ◆ Jefferson County Executive High School Internship Mentor, Spring and Summer 2015.
- ◆ Volunteer competitive soccer coach for Under 12 Girls, Fall 2014 through Spring 2015.
- ◆ Volunteer competitive soccer coach for Under 14 Girls, Fall 2010 through Spring 2013
- ◆ Founding Committee, Women in Design Denver (WiD), 2005. WiD began with a small group of multidisciplinary women in the architectural and engineering design field looking for a supportive community of inclusion and diversity.
- ◆ Implemented Family Leave Program at Martin/Martin Consulting Engineers, 2000.

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## Expert Witness Testimony

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- ◆ Balterra at Sterling Hills, Attorney David McLain with Higgins, Hopkins, McLain & Roswell, LLC. Testimony regarding construction defects on August 30, 2016
- ◆ Williams v. K Squared Inc., LLC, Case No. 2015CV30337. Testimony regarding construction defects on November 17, 2015.
- ◆ Brandon Friel, Deborah Friel n/k/a Deborah Ward, and Stephen Hurd and Susannah Hurd v. Steven Gilbert, individually, Tuft Construction and Development, Inc., Case #2014CV33888. Testimony regarding construction defect issues including grading, drainage and building envelope issues resulting in water intrusion on October 22, 2015.
- ◆ Thompson Property Services LLC vs. Steven Charles Cook and Susan Schmidt and James Edward Thompson, II, El Paso County District Court, Case #2014CV34357. Testimony regarding construction defect issues including grading, drainage and building envelope issues resulting in water intrusion on September 23, 2015.
- ◆ Yokomichi v. The Point Condominium Association, Attorney Christopher Drake with Orten, Cavanagh & Holmes, LLC. Testimony regarding distress from foundation movement on June 10, 2015
- ◆ Jeri Korshak and Clifford Huston v. Grand Lake Log Homes, Inc. and James Edward Hobbs, and Auto-Owners Insurance Company, Grand County District Court, Case #11-CV-82. Testimony regarding structural damage resulting from pipe leak March 2013.
- ◆ Jeri Korshak and Clifford Huston v. Grand Lake Log Homes, Inc. and James Edward Hobbs, and Auto-Owners Insurance Company, Grand County District Court, Case #11-CV-82. Testimony regarding structural damage resulting from pipe leak February 2011.

## Affiliations

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American Society of Civil Engineers  
Women in Design Denver  
American Association for Wind Engineering  
Women's Network National Renewable Energy Laboratory, Outreach Committee Member  
Engineers Without Borders