



## STRUCTURAL ENGINEERS OF COLORADO NEWSLETTER

### 2018 WINTER SCHEDULE

#### SEAC YMG Happy Hour

January 17, 2018  
6:00pm-8:00pm  
Alpine Dog Brewery  
1505 N Ogden St.  
Denver, CO 80218

#### SEAC Breakfast Meeting

January 18, 2018  
7:30am-9:00am  
Renaissance Hotel  
3810 Quebec St.  
Denver, CO 80207

#### Deferred Submittals Presentation

February 7, 2018  
6:00pm-7:00pm  
Martin/Martin, Inc.  
12499 W. Colfax Ave.  
Lakewood, CO 80215

#### Business Management Committee

February 8, 2018  
7:30am-9:00am

#### Northern Colorado Meeting

February 15, 2018  
7:30am-9:00am  
CTL Thompson  
400 North Link Lane  
Fort Collins, CO 80524

#### SEAC/CAGE Joint Meeting

March 15, 2018  
Lakewood Country Club  
6800 W 10th Ave  
Lakewood, CO 80214

### SEAC January General Meeting

#### Effective Bracing for Flexural Members and Systems in Steel Buildings and Bridges

Professor Todd Helwig is this year's AISC T.R. Higgins Award Winner. His lecture is focused on the stability of flexural systems in steel buildings and bridges with a particular emphasis on bracing requirements. The lecture highlights the results from large-scale experiments and parametric finite element analysis on flexural members. The many factors that impact the effectiveness of torsional bracing systems are covered. An overview of the system buckling mode for I-shaped girder systems, which is a relatively new failure mode the profession has become aware of over the past 15 years, is also discussed. Improved details such as the use of split pipe stiffeners and lean-on bracing are also covered.



Professor Todd Helwig holds the J. Neils Thompson Teaching Fellowship in Civil Engineering at the University of Texas at Austin (UT Austin). He joined the faculty at the UT Austin in 2005 after teaching at the University of Houston for 11 years. His area of interest is the design and behavior of steel structures with an emphasis in structural stability and bracing. He has co-developed and taught a number of short courses on the fields of structural stability and bracing on behalf of the Structural Stability Research Council (SSRC), the American Institute of Steel Construction (AISC), and the National Highway Institute. He has conducted a wide range of research studies on the design and behavior of steel buildings and bridges. Results from past studies have led to design methodologies for bracing systems for steel box girders as well as new details for stability bracing systems for I-shaped sections. He has also developed recommendations for cross-frame and diaphragm systems that rely on lean-on bracing to help reduce the number of fatigue sensitive braces on steel bridges. His research has been recognized with several awards. In 2005, he was recognized by TxDOT with a top innovation award in 2005 for work related to lateral bracing of bridge girders by permanent metal deck forms. In 2010, his work on stability bracing systems in steel bridges was recognized at the North American Steel Construction Conference with an AISC Special Achievement Award. He has served on a number of technical committees for AISC, ASCE and SSRC. He is currently the Chair of SSRC.

To register go to <https://seacolorado.org/event/seac-january-general-meeting/>

# PRESIDENT'S MESSAGE

Structural Engineers Association of Colorado

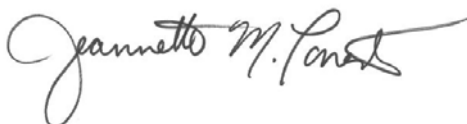
As we close out 2017 and move into 2018, I'd like to introduce you to this year's Board of Directors. After a busy year overseeing our transition to a new administrative team and a new website, Paul Doak will be stepping into the role of Past President. Ben Cook is rotating off of the board and will serve as Colorado's delegate to NCSEA for the next few years. Jeremy Crandall is moving into the Vice President/Treasurer seat, and I will be your President for 2018. Greg Black and Donald Harvey will continue as Directors, and Rob Jackson will be moving off of the board. As one of his last official acts as a Director, Rob Jackson worked with Jeremy to verify the election results for the open board positions. This was a nail-biter. After verifying voter eligibility and counting and recounting ballots, the race for Secretary was decided by a single vote. Chad Mitchell will be joining the Board as Secretary and Maryann Davis will be our new Director. Thank you to our nominating committee of Brenda Yockstick, Jerry Maly, and Ben Nelson for putting together such a strong slate of candidates and to John Hart and Lacey Goetz for their willingness to run.

This election reminded me of two fundamental cornerstones of our organization: participation and involvement. One voice can make a difference in our industry, from determining the makeup of our board to influencing local and national code adoption, establishing best practices, or encouraging future engineers. The caliber of candidates willing to make a multi-year commitment to our organization always continues to impress me.

There's a lot to look forward to in 2018: continued expanded programming from our Education Committee as well as our Northern Colorado Committee, electronic PDH certificates, a bylaws and operating manual update, and of course, bacon at breakfast meetings. Make 2018 your year to get more involved with SEAC: invite a colleague to a breakfast meeting, join a committee, donate to the Scholarship Fund, sponsor a student gingerbread bridge team, or get qualified as a 2<sup>nd</sup> Responder to perform structural damage assessments in the case of national disasters.

I hope to see you at our first meeting of the year where we have the pleasure of hosting the AISC T.R. Higgins lecture.

Happy New Year!



Jeannette Torrents

SEAC President

# BOARD OF DIRECTORS

Structural Engineers Association of Colorado



**Jeannette Torrents**

President

JVA, Incorporated

303-444-1951

[jtorrents@jvajva.com](mailto:jtorrents@jvajva.com)



**Jeremy Crandall**

VP/Treasurer

Lam-Wood Systems, Inc.

303-458-1736

[JeremyC@lamwood.com](mailto:JeremyC@lamwood.com)



**Chad Mitchell**

Secretary

S.A. Miro, Inc.

720-407-1031

[cmitchell@samiro.com](mailto:cmitchell@samiro.com)



**Paul Doak**

Past President

Martin/Martin, Inc.

303-431-6100

[pdoak@martinmartin.com](mailto:pdoak@martinmartin.com)



**Greg Black**

Director

970-213-1824

[G2black@comcast.net](mailto:G2black@comcast.net)



**Donald Harvey**

Director

Atkinson-Noland &  
Associates, Inc.

303-444-3620

[dharvey@ana-usa.com](mailto:dharvey@ana-usa.com)



**Maryann Davis**

Director

Drake-Williams Steel

720-354-4664

[mdavis@dwsteel.com](mailto:mdavis@dwsteel.com)

**We Want to Hear from YOU!** The SEAC Board of Directors is interested in hearing your suggestions, comments, and ideas. Please feel free to contact a member of the BOD at any time.

**Thank you to all of our members who continue to support SEAC!**



# ANNOUNCEMENTS

Structural Engineers Association of Colorado

## Welcome to our Newest Members

**Brian Rossiter (Professional Member)**

Pattillo Associates Engineers

**Nathaniel McNichols (Professional Member)**

Ascent Group, Inc.

**Rohan Kadole (Student Member)**

Colorado State University

**Samuel McGlamery (Professional Member)**

The Vertex Companies, Inc.

**Hillary Nicholas (Student Member)**

Colorado State University

**Dianne Rundell (Affiliate Member)**

Park Range Construction, Inc.

**Brandon Perry (Student Member)**

Colorado State University

**Heather Strong (Affiliate Member)**

WoodWorks

**Scott Verplanck (Student Member)**

Colorado State University

**Kevin Dowd (Professional Member)**

Ascent Group, Inc.

**Sushant Admuthe (Student Member)**

Colorado State University

**Seth Gernat (Professional Member)**

FDG, Incorporated

**Jack Hotvet (Student Member)**

Colorado State University

**Aura Lee Kelly (Affiliate Member)**

JVA, Inc.

**Jeet Kumar Sonwani (Student Member)**

Colorado State University

**Dr. John Peterka (Honorary Member)**

Jon Peterka Engineering LLC

**Sergio Yugar Arias (Student Member)**

Colorado State University

# ANNOUNCEMENTS

Structural Engineers Association of Colorado

## **Membership Renewals**

Renew your membership online by January 31<sup>st</sup> in order to maintain access to all of your membership benefits such as:

- 20% Discount on 80+ publications including the 2018 IBC, ASCE 7-16, 2015 NDS, and ACI 318-14.
- Discounted prices for NCSEA Webinars and SE Exam Review Course.
- STRUCTURE magazine subscription
- *Structural Connection* subscription
- SEAC Newsletter with structural engineering position advertisements, industry developments, and notification of upcoming events such as Young Member Group Happy Hours, Project Presentations, Job Site and Plant Tours, Breakfast Meetings, and Seminars.
- Free live web broadcast of general meetings for out-of-area members.
- Access to recordings of past general meeting presentations.
- Bimonthly breakfast meetings with an opportunity to earn PDHs and network within our industry.
- Discounted prices for the Fall Seminar and Annual Dinner.
- Opportunity to participate in technical and professional committees that shape our profession on topics from code development to business management.

If you have not received a dues notice, need to correct your local or out-of-area status, or want to upgrade your membership type, please contact Kim Wyatt at [administrator@seacolorado.org](mailto:administrator@seacolorado.org).

# 2017 Gingerbread Bridge Competition Results

Structural Engineers Association of Colorado

Congratulations to all of the teams that participated in this year's Gingerbread Bridge Competition on November 17<sup>th</sup>, hosted by the YMG Committee. This year's showing was truly remarkable! We hope everyone had a great time building and decorating their bridges and enjoyed some friendly competition. We know everyone learned from this year's event and we look forward to seeing what improvements everyone comes up with next year.

## Recap of the 2017 Gingerbread Bridge Competition:

- 16 teams participated
  - 3 middle school teams
  - 1 high school team
  - 3 college teams
  - 9 professional teams
- Architectural Design Results
  - 1st Place: The LVG Lodge  
(LEED Pyrite Certified) Wallace Engineering
  - 2nd Place: Rainbow Road D.O.T. -  
RMG Engineers
  - 3rd Place: How Sweet It Is -  
Structural Consultants, Inc.
  - Student Team: Eskimo -  
STEM Middle School,  
Girls in STEM (Sponsored by WJE)
- People's Choice
  - 1st Place: Rainbow Road D.O.T. -  
RMG Engineers
  - 2nd Place: The LVG Lodge  
(LEED Pyrite Certified) Wallace Engineering
  - 3rd Place: Campus MACC Girls -  
Campus Middle School, Girls in STEM  
(Sponsored by Martin/Martin)
- Structural Design
  - 1st Place WJE  
Total Load = 2813.50lb  
Strength-to-Weight Ratio = 221.61
  - 2nd Place: Colorado School of Mines  
(Sponsored by SEAC)  
Total Load = 1968.70lb  
Strength-to-Weight Ratio = 140.62
  - 3rd Place: Structural Consultants, Inc.  
Total Load = 1954.0lb  
Strength-to-Weight Ratio = 138.58
  - Honorable Mention: Goddard Middle  
School, Girls in STEM (Sponsored by Ascent)  
(5th Place)





# 2017 Gingerbread Bridge Competition Results

Structural Engineers Association of Colorado

More detailed results for the 2017 Gingerbread Bridge Competition can be found through the link below.

Please let us know if you have any questions. Please also be sure to check out the following links for access to photos and media coverage of this year's event by FOX31 and BEST Denver/Hearst Digital Media. The event results and links to the Gingerbread Bridge Competition Facebook page can also be found at [gingerbreadbridge.com](http://gingerbreadbridge.com).

## [Event Photos](#)

[FOX31KDVR - Gingerbread Bridge Competition](#)

[BEST Denver - Gingerbread Bridge Competition](#)



Based on the generous contributions our corporate sponsors, DeWalt, Lamwood, Martin/Martin, Ascent Engineering, and WJE and donations made to this year's raffle, the SEAC YMG was able to raise approximately \$1,700 to support the charities selected by this year's first place winners in the Structural and Architectural categories. Based on the competition results, contributions of \$850 will be made to Children's Hospital and the American Society for the Prevention of Cruelty to Animals (ASPCA) on behalf of Wallace Engineering and WJE, respectively.

## **Looking Ahead:**

The SEAC YMG Committee has already started preparing for the 2018 Gingerbread Bridge Competition. Please be sure to share your feedback with us so we can help improve the event for next year. Based on the number of entries this year, we will be looking for larger venues to host next year's competition. Email your feedback, venue suggestions and/or rule change suggestions to [yeg.seac@gmail.com](mailto:yeg.seac@gmail.com). Want to help plan the Gingerbread Bridge Competition? Get involved in the SEAC YMG Committee to help shape future Gingerbread Bridge Competitions!

This year, the SEAC YMG Committee made great progress in increasing student involvement in the Gingerbread Bridge Competition. We had 6 volunteers go into 3 middle schools to share tips and tricks for the design, construction and transportation of gingerbread bridges, as well as lessons learned from their experiences with the Gingerbread Bridge Competition. We would love to see this outreach program expand. If you would like to help spark a passion for structural engineering in middle school and high school students, we encourage you to volunteer your time next year to mentor student teams in the greater Denver area.

This event is also made more accessible to students through corporate sponsorship. Based on the generous contributions of our 2017 sponsors, we were able to waive the entry fee and provide a \$50 stipend for construction materials to 7 student teams! This event is an avenue to get middle school and high school students thinking about structural engineering as a potential career path. At the college level, this event is a great way to connect potential employers with proactive students who can get excited about unique design challenges. Your firm's support can help grow the Gingerbread Bridge Competition outreach program.

For a full table of results go to <https://seacolorado.org/2017-gingerbread-bridge-competition-results/>

# Upcoming YMG Events

Structural Engineers Association of Colorado

## Young Members Group Events

The SEAC Young Members Group (YMG) promotes the development of young engineers into successful professional engineers and future leaders in the structural engineering community. Our group facilitates professional development through networking events, technical discussions and product demonstrations, project site visits, community outreach and mentorship opportunities. Please join us at our upcoming events.

### SEAC YMG Happy Hour at Alpine Dog

Join the SEAC YMG and the New Brew Crew for Happy Hour at the Alpine Dog. Meet other young professionals during a casual networking event at a local pub with the beer drinking individuals who call themselves the “New Brews Crew” to explore the fine ales (and lagers) of Colorado.

Date/Time: Wednesday, January 17 from 6-8PM

Location: Alpine Dog  
1505 N Ogden St.  
Denver, CO 80218

Website: [alpinedogbrewery.com](http://alpinedogbrewery.com)



## You Can't Just Delegate Everything Away to Others with Deferred Submittals

Ben Nelson from Martin/Martin will be presenting information from his presentation at the 2017 NCSEA Summit.

Abstract: IBC-2015 has specific requirements of the Engineer-of-Record regarding delegated design and deferred submittals. Many engineers misunderstand and misapply those requirements when delegating the design of portions of building structures to others. This session discusses lessons learned and suggested best practices for delegated design and deferred submittals.

Date/Time: Wednesday, February 7 from 6-7PM

Location: Martin/Martin  
12499 W Colfax Ave.  
Lakewood, CO 80215



# Educational Opportunities

Structural Engineers Association of Colorado

EARN 3 HOURS OF CONTINUING EDUCATION – FREE

Presented by



## Designing and Building with Precast Concrete Seminar

Colorado Convention Center • Denver, Colo.

Discover why designers, developers, and construction managers are turning to precast concrete for their new resilient communities and structures.

Precast concrete delivers the optimal building system for a variety of projects including parking structures, multi-family residential, stadiums, office, higher education, healthcare, infrastructure and so much more.

While the seminar is FREE, all attendees must register by February 2, 2018. Onsite registration is not available.

[www.precast.org/aia-architecture](http://www.precast.org/aia-architecture)

Sponsored by



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Designing and Building with Precast Concrete Seminar

at  
The Precast Show

Friday, February 23, 2018

12:00 p.m. – 1:00 p.m.

Lunch/The Precast Show

1:00 p.m. – 4:00 p.m.

Seminar

Colorado Convention Center  
Denver, Colo.

3 LUs



[www.precast.org/aia-architecture](http://www.precast.org/aia-architecture)

# Educational Opportunities

Structural Engineers Association of Colorado



## PCI Continuing Education Webinar Series

*Earn CE Credit from the comfort of your own office - join us for our next free webinar.*

### ***"PCI Design Handbook: Precast and Prestressed Concrete, Eighth Edition"***

Join this webinar which will focus on reviewing content and updates for the newest edition of the PCI Design Handbook.

#### **Learning Objectives:**

- Identify the content and reference standards in the PCI Design Handbook
- Follow the updates from the 7<sup>th</sup> to the 8<sup>th</sup> Edition
- Explain new component and connection design concepts
- Describe the new information included in appendixes

#### **Presenter:**

**Jared Brewe, PhD, PE, SE**, Senior Staff II - Structures, Simpson Gumpertz & Heger

**[Click here to register for the January 16, 2018 @ Noon EST \(11:00 a.m. CST\)  
Offering](#)**

**[Click here to register for the January 18, 2018 @ Noon PST \(2:00 p.m. CST\)  
Offering](#)**

# Educational Opportunities

Structural Engineers Association of Colorado



**DON'T MISS THE PREMIER EVENT FOR STRUCTURAL ENGINEERS.**

**SAVE \$**  
REGISTER BY 2-14

## STRUCTURES CONGRESS 2018

Fort Worth, TX | April 19-21 • Fort Worth Convention Center  
[www.structurescongress.com](http://www.structurescongress.com)



### JOIN US!

- Participate in the Premier Event for Structural Engineering
- Learn from the experts
- Network with 1,200 of your colleague
- Earn PDH's
- Enjoy fun, social events with friends old and new...and much more





# SEAC 2018 Calendar

Structural Engineers Association of Colorado

## 2018 SEAC EVENT SCHEDULE

**BOARD OF DIRECTOR MEETINGS: JVA, INC./ WEBEX**  
1319 SPRUCE STREET, BOULDER, CO 80302

**BUSINESS MANAGEMENT MEETINGS:**  
**MARTIN/MARTIN**  
12499 WEST COLFAX AVE. LAKEWOOD, COLORADO 80215

**GENERAL MEETINGS: RENAISSANCE HOTEL**  
3801 QUEBEC ST., DENVER, CO 80207  
**LAKEWOOD COUNTRY CLUB**  
6800 W 10TH AVE, LAKEWOOD, CO 80214

**FALL SEMINAR: SHERATON DENVER WEST**  
360 UNION BLVD., LAKEWOOD, CO 80228

**NCSEA SUMMIT:**  
**SHERATON GRAND**  
301 E NORTH WATER ST., CHICAGO, IL 60611

**NORTHERN COLORADO MEETINGS:**  
**CTL THOMPSON**  
400 NORTH LINK LANE, FORT COLLINS, CO 80524

SEAC DATES	DATE	DATE	DATE	DATE	DATE	DATE
<b>BOD MEETING 7:30 AM</b>	1.4.2018	3.1.2018	5.3.2018	7.5.2018	9.6.2018	11.1.2018
<b>BOD - WEBEX 7:30AM</b>	2.1.2018	4.5.2018	6.7.2018	8.2.2018	10.4.2018	12.6.2018
<b>BUSINESS MANAGEMENT 7:30 AM</b>	2.8.2018	4.12.2018	6.14.2018	8.9.2018	10.11.2018	
<b>GENERAL/ANNUAL MEETING 7:30AM/6:00PM</b>	1.18.2018	3.15.2018	5.17.2018	7.19.2018	9.20.2018	11.8.2018
<b>NORTHERN CO MEETING 7:30AM</b>	2.15.2018	4.19.2018	6.21.2018	8.16.2018	11.15.2018	
<b>FALL SEMINAR 7:30AM</b>	10.11.2018					
<b>NCSEA SUMMIT</b>	10.24.2018	10.25.2018	10.26.2018	10.27.2018		

# SEAC COMMITTEES... WE NEED YOU!

Structural Engineers Association of Colorado

Have you considered joining a committee?

*Your participation is what makes our organization so successful.*

*If you are interested in joining, please click on the hyperlink name to contact*

Committee	Chairperson	Contact Phone	Board Liaison
BIM	<a href="#">Desiree Mackey</a>	303.431.6100	<a href="#">Jeremy Crandall</a>
Building Dept. Liason	DORMANT		<a href="#">Chad Mitchell</a>
Business Management	<a href="#">Paul Hause</a>	303.399.5154	<a href="#">Paul Doak</a>
Construction Industry	DORMANT		<a href="#">Paul Doak</a>
Denver Building Dept.	<a href="#">Jerry Maly</a>	303.914.4300	<a href="#">Chad Mitchell</a>
Education	<a href="#">Irena Kahanek</a> <a href="#">Matt Hardman</a>	720.296.7595 303.876.5700	<a href="#">Jeannette Torrents</a>
Ethics	<a href="#">Peter Marxhausen</a>	303.947.5375	<a href="#">Donald Harvey</a>
Existing Structures	<a href="#">Gene Stevens</a>	303.860.9021	<a href="#">Donald Harvey</a>
Membership	<a href="#">Jerry Maly</a>	303.914.4300	<a href="#">Maryann Davis</a>
Nominating	<a href="#">Jerry Maly</a>	303.914.4300	<a href="#">Paul Doak</a>
Northern Colorado	<a href="#">Greg Black</a>	970.619.8986	<a href="#">Greg Black</a>
Precast Concrete	<a href="#">Trevor Kirkley</a>	303.298.1900	<a href="#">Paul Doak</a>
SEER	<a href="#">Brent Norris</a> <a href="#">Mike Piper</a>	303.860.9021 303.431.6100	<a href="#">Chad Mitchell</a>
Scholarship	<a href="#">Jeannette Torrents</a>	303.444.1951	<a href="#">Jeannette Torrents</a>
Seismic Standards	<a href="#">Rob Jackson</a>	303.843.2850	<a href="#">Jeremy Crandall</a>
Snow Loads	<a href="#">Jeannette Torrents</a>	303.444.1951	<a href="#">Jeannette Torrents</a>
Standard of Practice	<a href="#">Jim Ness</a>	303.623.4927	<a href="#">Paul Doak</a>
Steel Materials	<a href="#">Ben Cook</a>	303.914.4300	<a href="#">Maryann Davis</a>
Wind Loads	<a href="#">Dale Jones</a>	970.568.2919	<a href="#">Jeannette Torrents</a>
Young Engineers	<a href="#">Jeremy Crandall</a> <a href="#">Katie Courtright</a>	303.399.5154	<a href="#">Jeremy Crandall</a>

# EMPLOYMENT OPPORTUNITIES

Structural Engineers Association of Colorado



## Structural Steel Detailing Technician

*Martin/Martin is looking for a Steel Detailing Technician to join our Construction Engineering Services Team in the Lakewood, Colorado office. The position will provide opportunities to work on structures throughout the Front Range of Colorado & national locations in markets such as healthcare, commercial office, sports & entertainment, and education. Martin/Martin is the leading civil/structural engineering consulting firm in the region. We are client focused and employee centered.*

### **Required Qualifications**

- High school diploma or equivalent
- Graduation from a program in building information modeling/design technology/drafting from an accredited technical institute, two-year junior college, or at least two years of equivalent industry related experience
- Expertise in Autodesk 3D AutoCAD, Tekla Structures, SDS/2, Autodesk Advance Steel, or Autodesk Revit
- Ability to read and interpret architectural/structural plans and details
- Self-motivated and able to work independently for extended periods of time
- Committed to client service and a team-based approach

### **Desired Qualifications**

- Experience in Autodesk Advance Steel a plus
- Experience detailing steel stairs a plus
- Experience in Tekla Structures or SDS/2
- Experience checking structural steel shop drawings
- Detailing, BIM, construction, or structural steel or cold-formed steel detailing experience
- GPA of 3.0 or higher
- Knowledge of structural steel systems and construction details
- Drafting, BIM, construction, or architectural design experience
- GPA of 3.0 or higher
- Knowledge of structural systems and construction details

*Martin/Martin, Inc. is dedicated to the principles of equal employment opportunity. We prohibit unlawful discrimination against applicants or employees on the basis of age 40 and over, color, disability, gender identity, genetic information, military or veteran status, national origin, race, religion, sex, sexual orientation or any other applicable status protected by state or local law.*



# EMPLOYMENT OPPORTUNITIES

Structural Engineers Association of Colorado



## Structural: Investigative Engineer

Martin/Martin, Inc. is looking for an experienced structural engineer to join our Existing Building Services group in the Lakewood, Colorado office. We are seeking to add a structural engineer who will work for various project managers on different project types within the investigative team. The successful candidate will primarily work with our fall protection and façade access system team with opportunities to also gain expertise in other areas of investigative engineering including: forensic analysis, historic preservation, non-destructive testing, seismic retrofit, repair and remodel work.

The successful candidate will join a collaborative team of engineers and technicians who work on many interesting and challenging investigative projects. He/she will develop expertise in a broad range of investigative engineering as well as be exposed to structural steel, concrete, masonry, and wood construction for investigative projects in and around the Rocky Mountain region.

### **Required Qualifications**

- Bachelor's degree in Civil or Architectural Engineering, with an emphasis on structures (Master's degree strongly preferred)
- 3 to 5 years of progressive structural engineering experience
- Registered Professional Engineer in Colorado or able to obtain within 1 year
- Strong knowledge of building and design codes
- Strong background and understanding of computer analysis and design software
- Excellent time-management skills and the ability to work on multiple projects
- Self-motivated and able to work independently for extended periods of time
- Strong work ethic
- Demonstrates commitment to continued personal growth and development in all aspects of their work
- Good written and verbal communication skills
- Willingness to perform field work including building documentation, investigation, and fall protection load testing

### **Desired Qualifications**

- Demonstrated ability to design, detail, coordinate, and model small to medium-sized projects
- Completed several remodel/addition/tenant improvement projects
- Competent in the use of Revit or Autocad for producing engineering drawings

*Martin/Martin, Inc. is dedicated to the principles of equal employment opportunity. We prohibit unlawful discrimination against applicants or employees on the basis of age 40 and over, color, disability, gender identity, genetic information, military or veteran status, national origin, race, religion, sex, sexual orientation or any other applicable status protected by state or local law.*

# EMPLOYMENT OPPORTUNITIES

Structural Engineers Association of Colorado



## Structural Engineer

Martin/Martin, Inc. is seeking to add one engineer to work in the Mountain office on a wide variety of fast-paced projects ranging from commercial, residential, hospitality, medical, mountain sports, investigative and numerous others. The successful candidate will have the opportunity to develop a broad range of expertise in many areas. Martin/Martin is the leading civil/structural engineering consulting firm in the region. We are client focused and employee centered.

### **Desired Qualifications**

- Master's degree in Civil or Architectural Engineering, with an emphasis on structures
- Demonstrated ability to design, detail, coordinate, and model projects
- Completed many new projects as well as remodel/addition/tenant improvement projects
- Ability to manage multiple projects, clients, and staff
- Desire to take part in marketing and business development activities
- Knowledge of investigative engineering and tools and the ability to diagnose problems and develop creative solutions
- Strong knowledge of M/M standards and culture
- Enjoys outdoor pursuits and taking advantage of this special opportunity to work and play in the Vail Valley

### **Required Qualifications**

- 6 to 12 years of progressive structural engineering experience
- Registered Professional Engineer in Colorado
- Strong knowledge of building and design codes
- Strong background and understanding of M/M computer analysis, design and REVIT software
- Excellent time-management skills
- Self-motivated and able to work independently for extended periods of time
- Ability to manage a project team of EIT's and technicians
- Strong work ethic
- Excellent written and verbal communication skills
- Willing to relocate to the Mountain Office within one year
- Willing to work remotely (including travel to and from) with the mountain office until permanent relocation
- Demonstrates strong commitment to continued personal growth and development in all aspects of their work

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# EMPLOYMENT OPPORTUNITIES

Structural Engineers Association of Colorado



Studio **NYL** Structural Engineers  
[www.studionyl.com](http://www.studionyl.com)

## Junior Engineer/REVIT Modeler (full time)

Do you want to work for Studio **NYL** Structural Engineers on some of the most exciting, cutting-edge design projects in Colorado, the USA and the

World? We're located in Boulder, Colorado, one of the most desirable places to live in America. We only work on fun projects with fun clients – see some of our world class designs at [www.studionyl.com](http://www.studionyl.com). Our team of structural engineers, architects and façade designers offer great learning opportunities to advance your career in a mentoring, open design studio.

Our Studio is looking for someone who has 2-5 years of practical experience as a structural engineer specializing in buildings, after having achieved either a Bachelors or Masters in Structural, Civil or Architectural Engineering. Experience in steel, concrete, timber and masonry design is essential. We will teach you how to design with aluminum, stainless steel, cables, glass, carbon fiber, plastic composites, and other non-traditional materials. Applicants with a passion for architecture and design are preferred – the desire to be part of a creative team is a must. REVIT Structure experience is essential.

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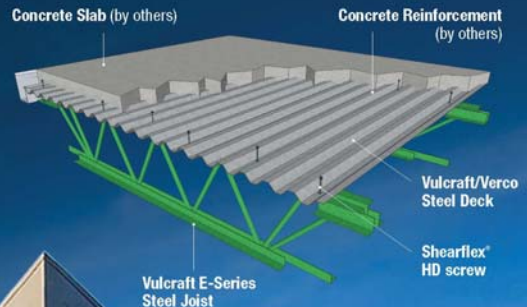
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