

Erin Lammers

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Education

University of Kentucky

Bachelor of Science in Chemistry 2015

Bachelor of Science in Civil Engineering 2017

- **Honors**
Dean's List, National Honors Society member, recipient of the UK Commonwealth Scholarship, UK Civil Engineering dept. scholarships, the Shier Scholarship, and the Sparks Scholarship.
 - **Activities**
Institute of Transportation Engineers (ITE) President and new student recruiter; Society of Women Engineers member; American Chemical Society (ACS) member; UK concert band; FUSION leader.
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Work History

Kentucky Transportation Center Lexington, KY

Traffic and Safety Research Engineer. May 2017 – present.

- Project manager for anti-icing/de-icing research project.
 - Researching chemicals with respect to efficiency, cost, and environmental impacts.
- Managed seatbelt research project; trained new employees, organized the schedule, led personnel management, and oversaw data input.
- Analyzed the accuracy of Mandli data to determine potential uses of collected data.
- Applied GIS software to define optimal snowplow routes and analyze improvement parameters.
- Investigated the feasibility of utilizing zipper merges in work zones.

Kentucky Transportation Center Lexington, KY

Traffic and Safety Research Assistant. May 2015 – May 2017.

- Evaluated various methods for determining advisory speeds on rural roadway curves.
- Assessed crash records and utilized engineering economic algorithms to determine the impact of installing highway barriers.
- Used iRAP and usRAP software to identify potential roadside hazards and solutions.
- Assistant managed seatbelt data collection project.
- Authored six formal case studies on GIS methods for FHWA.
- Co-authored report on wet nighttime delineation.

TransAnalytics, LLC Quakertown, PA

Consultant. October 2015 – May 2017

- Managed the data collection of a seatbelt research project in western Kentucky
 - Duties included budget proposals, project organization, and data collection/analysis.

University of Kentucky, Department of Civil Engineering Lexington, KY

Painter. August 2015 – July 2016, nights and weekends

- Painted front office of civil engineering department and several individual offices for professors and/or support staff

Johnny Brusco's Restaurant Prospect, KY

Server and new employee trainer. May 2012 – August 2013

- Provided dining guests with friendly, efficient service
- Trained new employees on service expectations and restaurant protocol
- Managed the restaurant opening during the morning shift

Interior Homeworks, LLC Kohler, WI

Design Assistant. May 2010 – August 2011

- Provided support to an interior design business through the creative process, administrative work, and design implementations

Job Skills and Abilities

Computer/Software Programs:

Microsoft Word, PowerPoint, and Excel
ArcGIS software
iRAP and usRAP software
AutoCAD basics
SQL server
MatLab programming software

Transferable Workplace Skills:

Excellent writing and editing skills
Public speaking
Comfortable working inside or outside
Trained in customer service
Extensive coaching experience.

Publications and Presentations

Poster Presenter, "Comparison of Methods for Determining Advisory Speeds on Horizontal Curves." Transportation Research Board Annual Meeting, January 10-14, 2017. Washington, D.C.

Lammers, Erin. (September 2016) "Utah's and Kentucky's Innovative Use of GIS-Based Tools." *Case Study: FHWA-SA-16-028*.

Green, Eric; Agent, Ken; Lammers, Erin. (July 2016) "Development of an Improved Method for Determining Advisory Speeds on Horizontal Curves." *Research Report: KTC-16-14/SPR15-507-1F*.

Lammers, Erin. (May 2016) "Colorado's Implementation of Level of Service of Safety." *Case Study: FHWA-SA-16-027*.

Lammers, Erin. (May 2016) "Iowa's Real-Time Data Integration of Snowplow Information and Roadway Safety." *Case Study: FHWA-SA-16-030*.

Presenter, "Applicability of Zipper Merge versus Early Merge in Kentucky Work Zones." Southeastern Transportation Center Conference, March 30 – April 1, 2016. Knoxville, TN.

Volunteer and Community Work

UK College of Engineering

Leader for Engineering Day: developed and led program about engineering for elementary students.
February 2017.

UK Civil Engineering Department

Student Representative on Education committee
September 2015 – May 2016.

Girls on the Run, Central Kentucky chapter.

Coach: Trained 3rd – 5th graders for a 5K while integrating a curriculum of lessons on healthy habits, interpersonal skills, and personal improvement.
February 2013 – April 2015.

FUSION in Lexington, KY

Site Leader: Led university students in community volunteer work, communicated with site representatives about work requirements.
August 2011 – August 2015.