

## Kyle C. Rule

### Associate

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Kyle Rule has experience preparing and prosecuting domestic and international patent applications for a wide variety of technologies, including HVAC systems and controls software, artificial intelligence and machine learning, financial and insurance software, plumbing fixtures, medical devices, automotive technologies including engine controls and filtration systems, and micro-acoustic devices. He is a registered patent agent and a member of the firm's Mechanical & Electromechanical Technologies Practice.

Prior to joining Foley, Kyle was a research and development project engineer at Astronautics Corporation of America where he was responsible for magnetic and fluid system design and development activities. He was also a research and development engineer at Creare, LLC, where he contributed to a variety of projects, including turbomachine design and analysis, high-effectiveness heat exchanger design, and test facility design for low-temperature cryocoolers.

Kyle is a registered patent agent with the U.S. Patent and Trademark Office and is currently attending law school at the University of Wisconsin, Madison.

### Presentations and Publications

- Co-author, "The Evolution of Magnetocaloric Heat-Pump Devices," *MRS Bulletin*, 43(4), 274-279 (2018)
- Co-author, "Design, Development, and Testing of a Water Vapor Exchanger for Spacecraft Life Support Systems," 46th International Conference on Environmental Systems (ICES), Vienna, Austria (July 2016)
- Co-author, "Characterization of Emitted Vibration from Turbo-Brayton Cryocoolers," *Cryocoolers* 19 (2016)
- Co-author, "Heat Capacity Characterization of a 4 K Regenerator with non-Rare Earth Material," *Cryocoolers* 19 (2016)

- Presenter, “Cryosurgical Probe Test Facility: Modeling and Experimentation,” ASHRAE Annual Technical Conference, Denver, Colorado (2013)

## Practice Areas

- [Intellectual Property](#)
- [Mechanical & Electromechanical Technologies](#)

## Education

- University of Wisconsin, Madison (M.S., 2013)
  - Mechanical Engineering
  - Graduate research focused on the development of an empirical performance model for a pre-cooled Joule-Thomson Cycle for cryosurgery
- University of Wisconsin, Madison (B.S., 2010)
  - Mechanical Engineering

## Admissions

- U.S. Patent and Trademark Office