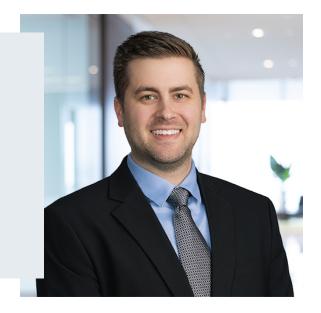


# **Kyle C. Rule** Associate

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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 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.

#### **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)

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### **Sectors**

- Automotive
- Consumer Products
- Electrified Mobility & Infrastructure
- Health Care & Life Sciences
- Manufacturing

# **Practice Areas**

- Intellectual Property
- Mechanical & Electromechanical Technologies

## **Education**

- University of Wisconsin, Madison (J.D., cum laude, 2023)
- University of Wisconsin, Madison (M.S., 2013)
  - Mechanical engineering
  - Graduate research focused on the development of an empirical performance model for a precooled Joule-Thomson Cycle for cryosurgery
- University of Wisconsin, Madison (B.S., 2010)
  - Mechanical engineering

## **Admissions**

- Wisconsin
- U.S. Patent and Trademark Office

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