

Montgomery College PREP: Jan 27, 2024 – May 9, 2025

Research Title: Development of an Industrial Robot Arm Database for Small Manufacturers

Description:

The [Emerging Technologies for SMEs](#) (Small and Medium Enterprises) Project is part of the NIST [Measurement Science for Robotics and Autonomous Systems](#) (MSRAS) Program, and looking to create tools to assist small manufacturers in automating their systems. One such tool being developed is a database website collecting industrial robotic arms. A draft has been created, however, due to the time between the data being collected and the website's creation, an update of the data is needed and an MC intern could be very helpful in collecting this information. Additionally, we would like to collect usage examples and case studies to add to the current data. A second version collecting tools like robotic grippers is also planned as a stretch goal. Through this experience, the intern will become more familiar with industrial robotics and will learn about the various types of robots currently on the market.

Desired skills:

- Interest in robotics
- Familiarity with Excel and/or Google Sheets
- Comfortable doing independent web-based research