



MDS-Rely

MAY 2025

NEWSLETTER

CMU Joins MDS-Rely!

Other Highlights

Student Spotlight:
Caroline Kromalic

MDS-Rely Chicago
Summer Forum



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Featured Announcements

CMU Joins MDS-Rely!



CMU has officially received approval from the NSF to serve as the third research site of the MDS-Rely Center along with Case Western Reserve University and the University of Pittsburgh.

"We are delighted to join MDS-Rely and their partners. We have synergistic interests in materials data science and artificial intelligence that will elevate research in these areas and advance materials development in our region and the national economy."

- John Kitchin, John E. Swearingen Professor of Chemical Engineering at Carnegie Mellon

[Read More](#)

Student Spotlight: Caroline Kromalic



Caroline Kromalic, a senior Material Science Engineering Major at CWRU, has been a major contributor to Dr. Janet Gbur's Aerosol Jet Printing research. Her insights as to how MDS-Rely has bolstered her education and provided her both the opportunity to diversify her skillset and gain leadership experience can be further explored in [this article](#).

MDS-Rely Chicago Summer Forum



Explore new partnerships in the Chicago area with us at Northeastern Illinois University on **May 28th!** Learn more about MDS-Rely and network with faculty, industry professionals, and government lab representatives. Registration is free!

Register [Here](#)

Member Engagement Opportunities

Ongoing and Completed Research Projects

Our Project summary document provides detailed summaries of the ongoing and completed research projects. Some senior design projects are also highlighted. Please check it out [here](#)

Biweekly Research Project Meetings

Stay engaged with the latest in research and development by joining our biweekly project meetings on Zoom. Each session offers updates and discussion, along with opportunities to mentor PhD students in advanced research. Can't make a session? Contact the lead professor to explore flexible options. Check the Center Calendar for dates and times. Check the [Center Calendar](#) for meeting dates and times.

1. Effects of Aerosol Jet Printing Parameters on the Lifetime Performance of Additively-Manufactured Flexible Circuits

Prof. Janet Gbur

Off until June ... every other Friday 3:30 - 4:30 PM

2. Non-Invasive Detection of Defects during Coatings Manufacturing

Prof. Chris Wirth

May 23 ... every other Friday 11:45 - 12:15 PM

3. Enhancing Degradation Analysis and Failure Prediction through Modern Machine Learning Techniques

Prof. Satish Iyengar

May 21 ... every other Wednesday 3:00 - 3:30 PM

4. Machine Learning Methods for Optimizing and Innovating Structural Color Paints and Coatings

Profs. Paul W. Leu, Oliver Hinder, and Jungtaek Kim

May 28 ... every other Wednesday 11:00 - 11:30 AM

5. Predictive Framework to Indicate the Age of Plastics for Proper Recycling

Profs. Metin Karayilan, Divita Mathur, Sanmukh Kuppannagari

May 23 ... every other Friday 9:30-10:30 AM

6. Quantitative Characterization of Chemical Interaction of Solutes with Defects for Predicting Intergranular Corrosion

Profs. Hyeji Im

May 28 ... every other Wednesday 2:30-3:00 pm

Job Openings and Opportunities

Member Job Openings

- [Eaton's Career Page](#)
- [Lawrence Livermore National Laboratory Internships](#)
- [National Energy Technology Laboratory Career Page](#)
- [Parker Hannifin Career Page](#)
- [U.S. Army Devcom Student and Intern Opportunities](#)
- [National Institute of Standards and Technology Job Openings](#)
- [Naval Nuclear Laboratory Career](#)
- [Westinghouse](#)
- [PPG](#)

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Submit Job Openings

*For MDS-Rely members only

[Fill out a job opening form here!](#)

Interested in partnering with Case Western or Pitt

Professors?

Please contact [Dr. Laura Bruckman](#) or [Dr. Paul Leu](#) for more information!

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