

To SUNY ESF Micro-credential Review Board,

As a member of the Syracuse Pulp and Paper Foundation Board, I have had many conversations with Dr. Blowers about the significance of digital modeling, serious games, and emerging technologies such as Artificial Intelligence (AI), Data Science, and Cybersecurity for the students at the SUNY College of Environmental Science and Forestry. These skills are essential for preparing students for careers in the pulp and paper industry as it undergoes digital modernization and embraces Industry 4.0.

The paper industry is rapidly adopting digital technologies to streamline operations, optimize processes, and enhance sustainability efforts. Digital modeling and serious games play a crucial role in this transformation, enabling students to develop practical skills in simulating real-world scenarios, testing hypotheses, and exploring innovative solutions. By incorporating digital modeling and serious games into the curriculum, students will gain hands-on experience in:

1. Visualizing and analyzing complex systems
2. Simulating manufacturing processes and supply chain logistics
3. Exploring sustainable practices and environmental impact assessments
4. Developing problem-solving and decision-making skills in a risk-free virtual environment

These skills will equip graduates with the ability to tackle real-world challenges in the paper industry, making them valuable assets to companies seeking to leverage digital technologies for increased efficiency, innovation, and sustainability.

We also discussed the need for Artificial Intelligence, Data Science, and Cybersecurity as essential elements of all the curriculums at SUNY ESF. I can specifically talk to the need for these courses for my industry.

In the era of Industry 4.0, the paper industry is increasingly reliant on data-driven decision-making, automation, and advanced analytics. Courses in AI, Data Science, and Cybersecurity are crucial for preparing students to navigate this technological landscape. AI and Data Science enable students to:

1. Develop predictive models for optimizing production processes
2. Analyze vast amounts of data to identify patterns and insights
3. Implement machine learning algorithms for automation and process optimization
4. Leverage data-driven decision-making for sustainable and efficient operations

Smurfit Westrock
1000 Abernathy Road
Sandy Springs GA 30022
USA
smurfitwestrock.com



Cybersecurity, on the other hand, is a critical component in protecting the industry's digital infrastructure, intellectual property, and sensitive data. Students with cybersecurity skills will be equipped to:

1. Identify and mitigate potential cyber threats
2. Implement robust security measures to safeguard digital assets
3. Ensure compliance with industry regulations and standards
4. Develop resilient systems to protect against cyber attacks

By integrating these emerging technologies into the curriculum, the SUNY College of Environmental Science and Forestry will produce graduates who are well-versed in the latest industry trends and equipped with the skills necessary to drive innovation, sustainability, and digital transformation in the paper industry. These skills will position graduates as valuable assets, enabling them to contribute to the industry's growth, efficiency, and sustainability goals. Dr. Blowers and her team at Datalytica have a keen eye for the requirements of our industry and the professional expertise to produce outstanding courses to meet those needs.

Sincerely,

Fred Lundy
Senior Vice President – Engineering And Manufacturing Services



1000 Abernathy Road NE, Atlanta, Georgia, 30328, United States

Mob: 315.243.6613
fred.lundy@westrock.com
www.smurfitwestrock.com

