



Congratulations to the newest batch of [NSF RETTL awards](#)! These new projects address important topics across the learning technology field, including the use of ML and AI-powered technologies to create inclusive learning experiences for students with disabilities, improving literacy outcomes for underserved youth through innovative speech and language processing technologies, and developing novel AR/VR teaching and learning platforms to respond to remote learning challenges posed by COVID-19.

CIRCLS would also like to extend a special congratulations to Erin Ottmar, who won a prestigious NSF CAREER award for her project, [Grasping Understandings of Students Mathematical and Perceptual Strategies Using Real-Time Teacher Orchestration Tools](#).

Make sure to check out the [full list of current RETTL awards](#)!

CIRCLS Perspective



Share your perspective with the CIRCLS community! [CIRCLS Perspectives](#) give members of our community an opportunity to share what drives their work and what they think about emerging

technologies for teaching and learning. If you are interested in sharing your CIRCLS Perspective, [please fill out this form](#).

Expertise Exchanges

AI CIRCLS

This week, AI CIRCLS [published two resources on community partnerships](#): 1) a planning template for researchers looking to improve their partnerships and 2) key takeaways from the AI CIRCLS Community Partnership series. We are incredibly grateful to the speakers who contributed to these resources in the [community partnership discussion series](#)! We are also excited to be wrapping up our [project incubator on AI and literacy](#) with 21 incredible participants from academia, K-12 education, and industry.

Emerging Scholar CIRCLS



This month's Featured Emerging Scholar is Dr. Samiha Marwan, a Postdoctoral Researcher and Computing Innovations (CI) Fellow at the University of Virginia. Samiha holds a Ph.D. in Computer Science (CS) from North Carolina State University, a Master's degree in CS from the British University in Egypt (BUE), and a B.S. degree in CS from Ain Shams University in Egypt. Her research focuses on designing and evaluating automated supports such as hints and formative feedback in learning environments. To learn more about

Samiha and her work, please read [Programming Gets Easier Through Feedback](#).

Educator CIRCLS

The Educator CIRCLS Emerging Technology Advisory Group for PK-12 is working to create practical policy recommendations to help school and district leaders in the U.S. protect individual privacy as they make decisions about the role of artificial intelligence (AI) and machine learning (ML) in schools and classrooms. Please [visit our website](#) to learn more.

If you are interested in joining any of our Expertise Exchanges, [please fill out this form](#).

CIRCLS Project Spotlight

The CIRCLS Project Spotlight is an opportunity for RETTL projects to introduce their work and share information about their project with the CIRCLS community that they might not otherwise get to learn about. Below is a sneak peek of our [new project spotlight](#):

Roxanne Moore shares more on her newly funded NSF RETTL project, [Exploring Artificial Intelligence-enhanced Electronic Design Process Logs: Empowering High School Engineering Teachers](#) (#2119135).

Team: Mark Riedl, Roxanne Moore, Jeff Rosen, Meltem Alemdar, Jessica Roberts, Gennie Mansi, Yasmine Belghith

The Engineering Design Process (EDP) is a framework commonly used in Engineering and Computer Science (CS) courses. The framework is typically drawn as a linear process from questioning to designing to implementation and testing, when in actuality, the design process is

non-linear and involves multiple iterations of problem identification, user interviews, and solution ideation. However, these critical stages of the design process are often overlooked in classrooms, with students going straight to prototype development. Principal Investigator Mark Riedl and his Co-PIs, Roxanne Moore, Jeff Rosen, and Meltem Alemdar, are working to pilot an AI system that can assist high school teachers in guiding students through the design process, provide real-time feedback, and promote documentation of each stage of the process.

Continue reading the [full CIRCLS Project Spotlight](#) and make sure to check out our other [recent spotlights on our website](#).

Opportunities

- **Solicitation:** [NSF Research on Emerging Technologies for Teaching and Learning \(RETTL\)](#): Don't forget that RETTL proposals are due **October 17, 2022**. Review our [proposal guidelines page](#) for more information and resources. [Read more](#).
- **Solicitation:** [NSF Faculty Early Career Development Program \(CAREER\)](#): The CAREER program is a Foundation-wide activity that offers the NSF's most prestigious awards in support of early-career faculty who have the potential to serve as academic role models in research and education and to lead advances in the mission of their department or organization. NSF encourages submission of CAREER proposals from early-career faculty at all CAREER-eligible organizations and especially encourages women, members of underrepresented minority groups, and persons with disabilities to apply. Applications are due **July 27, 2022**. [Read more](#).
- **Event:** [2022 IEEE ICICLE Conference on Learning Engineering](#): This in-person conference takes place **July 26–July 28** at the Samberg Conference Center, MIT Campus, in Cambridge, MA. The conference will gather a diverse group of professionals to deepen their understanding of learning engineering processes and practices. It will launch a new book on learning engineering, the *Learning Engineering Toolkit*, which will frame the themes of its interactive sessions. [Read more](#).
- **Event:** [Games for Change Festival](#): The Games for Change Festival promises to be more ambitious than ever before with two days live and in-person in New York City and two days that will be completely virtual and free! This year's festival features many exclusive networking opportunities for the community to reconnect with each other, re-engage in partnership discussions, and re-invigorate with fun and inspiring activities. The festival takes place **July 13–16**. [Read more](#).

Stay tuned and be on the lookout for the most up-to-date opportunities on our [website](#) and [Twitter](#)

**Have some news or resources that you want to share with the community?
Contact CIRCLS**

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