



LEARNING SCIENCES FOR INNOVATORS

Sustainable EdTech for Africa

We are excited to work with you on ways learning sciences can improve your EdTech product!

Learning Sciences for Innovators is a Carnegie Mellon University Africa initiative in partnership with the Mastercard Foundation.

What We Do

You have a product that you are really proud of, but how do you know it's effective? This is where the Learning Sciences for Innovators (LSFI) team comes in. We work with EdTech fellows to ensure that the products they produce are supported by principles of learning sciences.

As an EdTech fellow, you have access to the Carnegie Mellon University (CMU) network where you can connect with world-renowned learning scientists and scholars. The LSFI program equips you with evidence-based methods to create more engaging and effective learning experiences.

Multi-faceted Approach

Our experts at CMU and CMU-Africa are experienced in integrating learning sciences into transformative educational products in real-world contexts across the globe. We do this with a range of offerings so you can engage in ways that best suit your needs and stage of development.

Through hands-on learning, we consult on human-centered design, applying educational theory, and the analysis of rich data for evidence-based product improvements. We support you in refining and scaling your product so that you can contribute to a sustainable EdTech ecosystem across Africa.



Deep Dive Workshops

Join other companies in your hub for immersive in person workshops to master essential learning science concepts. These sessions target specific expertise areas and will deepen your team's understanding of the learning sciences.



Learning Sciences Webinars

Connect with other EdTech Fellows and the LSFI network of experts online to tackle real-world challenges with evidence-based approaches and collective wisdom. Join us for a range of offerings from expert dialogues on topics of interest to learning manager meetups.



Faculty Mentorship

Access personalized guidance through our one-on-one meetings for targeted planning and problem solving with experts in learning science, game design, education data mining, research, and more. Use these open office hours to discuss issues your company is facing of interest.



Free Certificate Courses

You (or your whole team) can sign up for free, flexible, self-paced online courses to build essential learning science skills needed to create engaging, effective, and impactful EdTech products. Earn a certificate that demonstrates your commitment and expertise.



Research Co-creation

Collaborate with world-class learning sciences researchers to study what works and why in order to improve your product and contribute to the growing knowledge base of educational research in African contexts.

Wondering where to begin?

Contact us if your company would benefit from the following services, which are free to Mastercard Foundation EdTech Fellows.

Email LSFI@cmu.edu to get started.



Visit [CMUlearn.org](https://cmulearn.org) for more information

Self-Paced Certificate Courses For Developing Expertise In Learning Sciences

Courses are free to Mastercard Foundation EdTech Fellows and Hubs

Educational Game Design

This series of courses explores how games can be used to teach, engage, and inspire. You'll grow the skills to design and develop educational games that are both fun and effective, using proven strategies to make learning more engaging and impactful.

Courses

- Foundations of Educational Game Design
- Learning Sciences and Educational Games
- Designing and Developing Educational Games

AI in Education: From Foundations to Innovations

This set of courses will provide you with the knowledge and skills to navigate and shape the future of AI-powered education, from foundational concepts to practical applications and innovative designs. You'll discover how to leverage Generative AI (GenAI) to create personalized, engaging, and adaptive educational content and systems.

Courses

- AI Overview from Machine Learning to GenAI
- Using GenAI to Improve Your EdTech Workflow
- Integrating Learner-Facing GenAI Into Your Product

Cultivating Personal and Interpersonal Growth in EdTech

Focusing on both personal and interpersonal growth in education is essential. In this course series, we explore ways to foster both personal and interpersonal growth in e-learning environments. These growth aspects ensure well-rounded learner development, preparing individuals to navigate both their inner landscapes and external interactions effectively.

Courses

- Integrating Mindset and Social Emotional Learning in EdTech
- Integrating Collaborative Learning in EdTech

Multimedia for E-Learning

Learn the Multimedia Principles with us to optimize how your learners engage with instructional materials that enhance their comprehension, retention, and transfer of knowledge. This foundational course sequence is especially relevant to Instructional Designers, UX Designers, and Developers who craft e-learning experiences.

Courses

- Essential Learning: Focusing on Key Elements
- Efficient Learning: Minimizing Mental Strain
- Generative Learning: Promoting In-depth Understanding

Intro to Learning Engineering

Learning Engineering, an evidence-based approach pioneered by CMU, blends science and technology to optimize learning outcomes, improving effectiveness and efficiency. Throughout the courses, you'll learn the essential concepts and processes and build a foundational understanding of learning engineering. Anyone who supports EdTech in any role can benefit from this foundational course.

Courses

- E-Learning Foundational Theories and Principles
- Designing Clear Learning Goals
- Designing Assessments for Learning