Participate!

FOR SUSTAINABLE INNOVATORS

Educating for Sustainability

Innovative engineering curriculum empowering students to develop sustainable solutions that drive the circular economy

SIEMENS

FOR A SUSTAINABLE WORLD

Tech for Sustainability Campaign 2023

Tech for Sustainability is a global initiative for students, researchers, startups, and innovative individuals to leverage technology to solve real-world sustainability challenges and shape our future alongside Siemens.

Leverage technology to shape a sustainable future

Siemens AG is a technology powerhouse that brings together the digital and real worlds to benefit customers and society and thus people around the globe. The company - having shaped each of the four industrial revolutions - focuses on intelligent infrastructure for buildings and decentralized energy systems, on automation and digitalization in the process and manufacturing industries, on water solutions, and on smart mobility solutions for rail transport, but also in financial services and software development.

As a global ideation campaign, Tech for Sustainability is designed to engage innovators outside of Siemens in order to come up with unique solutions for problems with a focus on sustainability. In a hackathon, the innovators who have been particularly successful in the early stages of the Campaign will have the opportunity to create a proof-of-concept and proof-of-feasibility for their ideas. The different phases of the campaign and their timeline are shown in figure 1.

"Sustainability is in our very DNA. It is not an option. It is a business imperative."
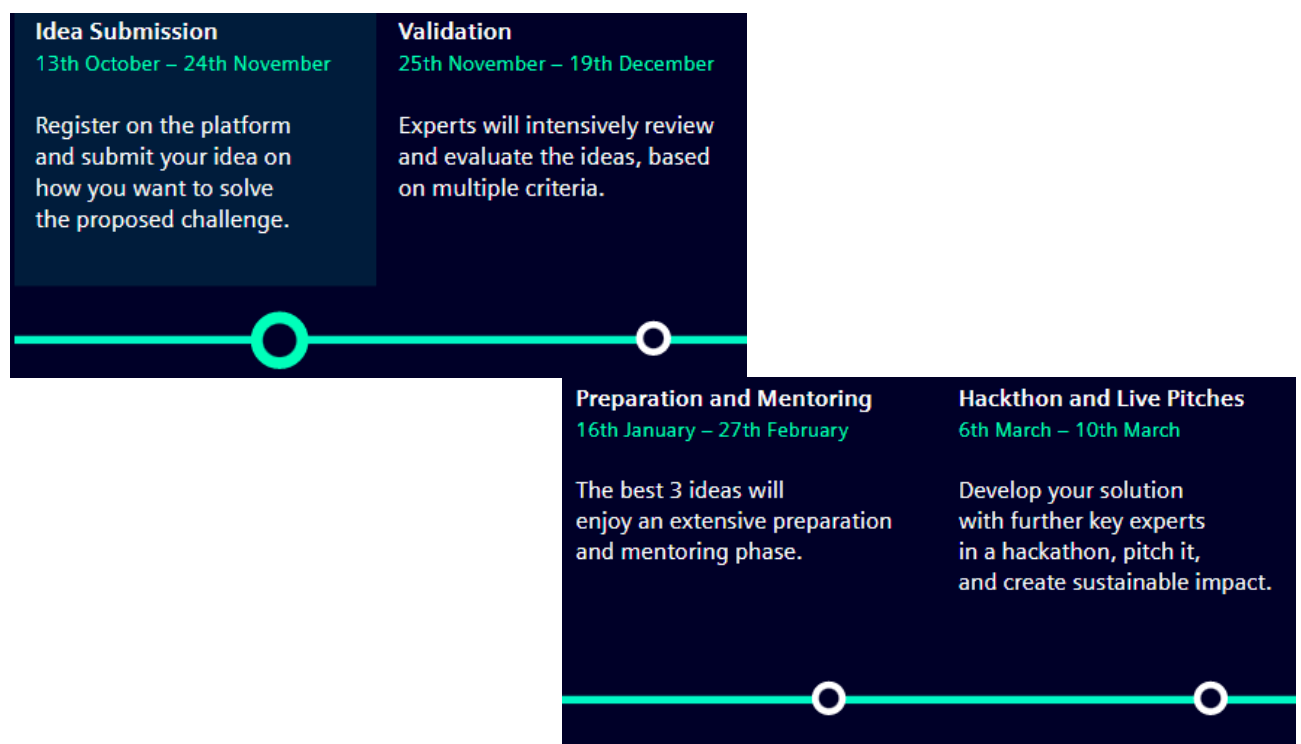*Judith Wiese, Chief People and Sustainability Officer, Member of the Managing Board of Siemens AG*

Idea Submission
13th October – 24th November

Register on the platform and submit your idea on how you want to solve the proposed challenge.

Validation
25th November – 19th December

Experts will intensively review and evaluate the ideas, based on multiple criteria.

Preparation and Mentoring
16th January – 27th February

The best 3 ideas will enjoy an extensive preparation and mentoring phase.

Hackthon and Live Pitches
6th March – 10th March

Develop your solution with further key experts in a hackathon, pitch it, and create sustainable impact.

Figure 1 - Timeline and phases of the campaign

What's in for you?

1. Work with us - Let's solve real problems together to move towards sustainability.

2. Work on-site - The teams with the best ideas will develop their applications further during a hackathon. They will get to work on-site or remotely for the development of their proof-of-concepts.

3. Win Prizes - Three winning teams per challenge – 1st 5,000€, 2nd 3,000€ and 3rd 2,000€

How do you get to the next phase?

All ideas will be evaluated by Siemens experts based on the following criteria. So, keep them in mind:

a) Innovativeness: Incremental or disruptive innovation

b) Sustainability: DEGREE and impact on the UN Sustainability Development Goals

c) Feasibility: Degree of technical and/or economic feasibility

d) Potential: Fit to Siemens processes, products and markets

e) Implementation: General implementation efforts (Time to market, R&D costs, etc.).

Join the campaign and create impact on real problems together with go-getters and solution seekers of the world by submitting your ideas.

https://siemens.com/techforsustainability

SIEMENS DIGITAL INDUSTRIES SOFTWARE CHALLENGE

Educating for Sustainability

Innovative engineering curriculum empowering students to develop sustainable solutions that drive the circular economy

We see enormous concern for sustainable development amongst youth all over the world, but little direction or support dedicated to empowering them to solve the world's challenges. This may be contributing to a sense of hopelessness which is, in turn, leading to diminishing enrollment and attrition in STEM (Science, Technology, Engineering & Math) programs at the tertiary level.

Manufacturing is responsible for roughly 20% of global CO_2 emissions and Industry is responsible for roughly 1/3 of the world's energy consumption. The transition to a sustainable world requires technical solutions and bright minds!

Siemens drives sustainable innovation by seamlessly combining the real and the digital worlds because we know that digitalization is the key enabler of the circular economy. As a core tenant of our DEGREE framework, Siemens will enable the technical education of our customers' and our own future employees and their peers to address global sustainability challenges.

We look forward to enabling the global workforce of the future to develop innovative sustainable solutions that drive the circular economy by the development of scalable curricula through academic-industry partnerships.

Siemens software ignites digital transformation, empowering companies of all sizes to embrace complexity and leverage it to enhance productivity and gain a competitive advantage. Our Global Academic Program empowers the next generation to build innovative solutions that holistically encompass process and product lifecycles from designing for sustainability, to optimizing production and usage, to reutilization and the circular economy.

We know that we can't drive sustainable global change alone. The ability of future generations to harness the power of digital twin technology for sustainable manufacturing and production depends on the skill, passion and dedication of educators.

How can you create impact?

To that end, this challenge seeks to support those faculty who are interested in developing scalable first year engineering curriculum focused on sustainable design and production. We are seeking educator partners who want to scale their impact and help us attract and retain more learners in STEM disciplines. This program offers support for educators in the form of:

- Financial support for the development of selected curriculum
- Access to industry subject matter expertise from Siemens and our commercial partners
- Academic licenses to our portfolio of software solutions
- Industry-leading training and certification for faculty and students
- Curriculum design resources for syndication of content across multiple distribution channels

Calling all educators! We have a shared goal of preparing the best and brightest new talent for careers in STEM disciplines. We aim to cultivate a sustainability mindset and empower students with the digital skills that they need to drive meaningful change toward a circular economy. Partner with us to develop scalable curricula for higher engineering education that inspires students and prepares them to solve problems with cutting edge industrial technologies.

We want to empower future engineers to combat global climate change by supporting the development of engineering curricula for sustainable design, sustainable production and the circular economy in industry.

We believe that supporting educators in the development of high quality, globally scalable and sustainability focused curriculum is good for our business, good for our customers and good for our planet. By partnering with educators who are dedicated to preparing their students to solve big problems in sustainable development, we harness a potent multiplier effect and help to ensure that we and our customers can source talent with the skillset, mindset and toolset to make our world a better place for generations to come.

Do you want to be part of a sustainable education eco-system with Siemens? What are you waiting for? Tune in on the kick-off event on the 13th of October at 4:30 p.m. (CET) and submit your solution!

Tech for Sustainability Campaign - For a sustainable world

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