

steeluniversity

steelChallenge



Join the Learning
Experience that is shaping
the future of steelmaking.

Overview

Welcome to **steelChallenge**, where innovation and sustainability take center stage in shaping the future of the steel industry. Since 2005, **steelChallenge** has been at the forefront, bridging steelmaking with digital transformation and environmental stewardship. This year, **we invite you to join us in this transformative learning experience.**

Over the past 19 years, **steelChallenge** has evolved from a pioneering initiative into a **globally acclaimed competition**, attracting thousands of participants worldwide. With **over 28,000 participants** to date, the competition has become a beacon for university **students and young professionals** eager to showcase their skills and drive the steel sector forward.

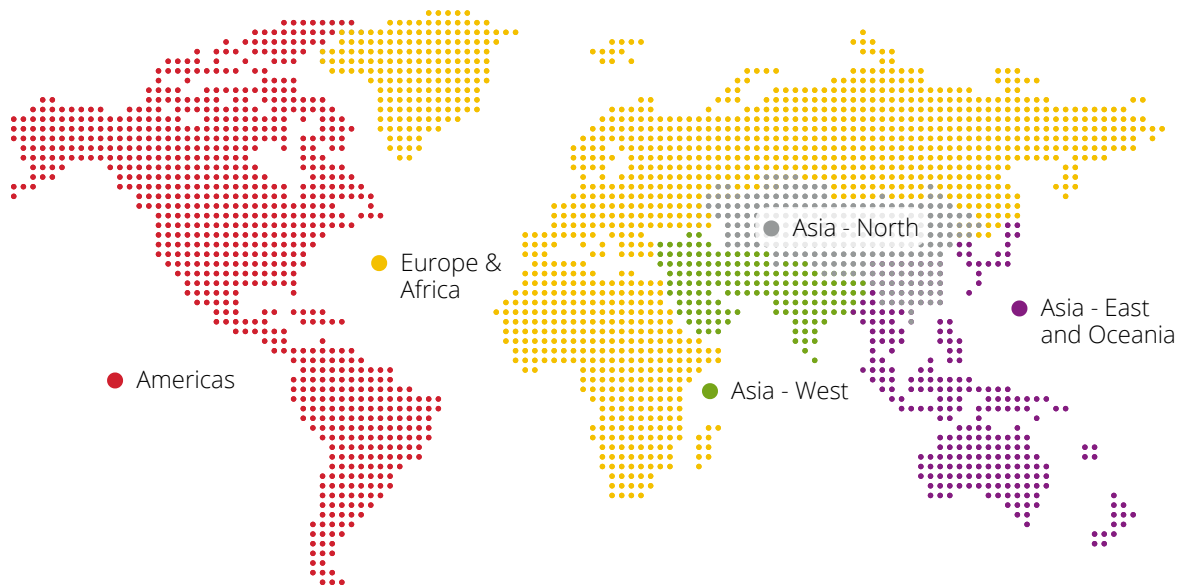
Participants immerse themselves in advanced steelmaking simulations, leveraging steeluniversity's extensive learning resources and networking opportunities with industry experts. This approach not only **enhances technical prowess** but also prepares participants for the **industry's digital and sustainable evolution.**

Beyond technical skills, **steelChallenge** cultivates a culture of **innovation and sustainability**. Participants are tasked with producing specific steel grades at minimal costs while meeting stringent environmental criteria, embodying the industry's commitment to sustainable practices.

Joining **steelChallenge** offers a unique blend of educational, professional, and personal growth. It empowers students and young professionals to hone essential skills, gain global recognition, and forge connections with industry leaders—all while driving innovation and sustainability in the steel industry.

As we embark on **steelChallenge-19**, we encourage students and young professionals to embark on this transformative journey with us. Together, **let's inspire excellence, champion sustainable innovations, and fortify the steel industry's resilience and prosperity for years to come.**





5
Regions

2
Rounds
Regional
& World

2
Categories
Industry &
Students

The Challenge

steelChallenge-19 will take place in two rounds. The Regional Championship will occur on 26 November 2024 from 12.00 UTC. Participants will have 24 hours to record successful runs of the chosen steelmaking simulators.

Objectives



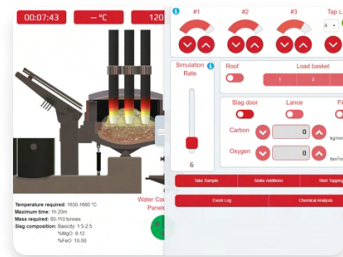
The general objectives of steelChallenge-19 are to **attract and retain top talent** in the steel industry, **develop young students and professionals** in steelmaking processes, and **foster collaboration** between universities and the industry.

By showcasing the exciting opportunities in steelmaking, we aim to draw bright individuals into the field. Through hands-on experience, we help participants build essential skills. Additionally, we promote better coordination and communication between academia and industry, ensuring a strong partnership for the future.

Organisation

For this year's challenge, participants will use both the **Electric Arc Furnace Simulator** and the **Secondary Steelmaking Simulator** to refine steel.

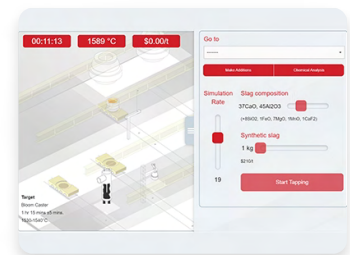
They will be tasked with achieving the proper chemistry, temperature, and environmental performance.



Electric Arc Furnace Simulator

Participants will compete in either the **student** or **industry** category within one of **five regions**: Americas, Asia – West, Asia – North, Asia – East and Oceania, Europe and Africa.

Ten qualifiers will advance to the **World Championship**, to be held in April 2025 during worldsteel's Special General Meeting (SGM). Qualifiers include the **top 5** student and industry from each region.



Secondary Steelmaking Simulator

Complete and updated information on steelChallenge-19, including rules and prizes, will be available on steeluniversity website.

www.steeluniversity.org

Prizes

World Championship finalists are recognized as some of the **most promising new talent** in the steel industry.

Winners receive a share of the cash prizes, a certificate of achievement, and global recognition. World champions will also receive the **steelChallenge** trophy and the **worldsteel** certificate in recognition of their achievement.

Finalists will also receive a **travel allowance** to attend the World Championship in person and **meet some of the most influential leaders and CEOs in steel**.



steelChallenge-19 Trophy

Schedule

01



Sep 1st, 2024

Open Registration

The registration is performed at steeluniversity.org and grants access to simulations, 3D models, e-learning courses, video tutorials, forum and support desk.

02



Sep, 2024

Sustainable Operation of EAF

1hr Master class deliver for industrial experts. The Master class is recorded and it is available with subtitles in English and Spanish.

03



Oct, 2024

EAF Simulation Tutorial

1hr Master class deliver for industrial experts. The Master class is recorded and it is available with subtitles in English and Spanish.

04



Nov, 2024

Trends in EAF Technologies

1hr Master class deliver for industrial experts. The Master class is recorded and it is available with subtitles in English and Spanish.

05



Nov 26th, 2024

Regional Championship

To take place on 26th November 2024 from 12.00 UTC. Participants will access the competition from the [steeluniversity](https://steeluniversity.org) website and will have 24 hours to record successful runs of the chosen steelmaking simulators.

06



Apr, 2025

World Championship

There will be 10 qualifiers for the World Championship to be held April 2025 at the time and location of worldsteel's Special General Meeting (SGM). The qualifiers include the student and industry winners in each region.

Why participate in steelChallenge?

Participating in **steelChallenge** offers a unique blend of educational, professional, and personal growth opportunities.

Join **steelChallenge** and **unlock a world of opportunities**. Engage in **hands-on experience** with cutting-edge steelmaking simulators, refining practical skills essential for your career. Dive into a wealth of learning resources, from 3D models to e-learning courses and expert-led master classes.

Forge your career with **global recognition** that elevates your resume and opens doors to new prospects. **Network with industry leaders**, potential employers, and peers, establishing connections that matter.

Embrace **innovation and sustainability** as pillars of your journey, equipping yourself with **creative problem-solving skills** crucial for future industry demands. Compete for recognition, certificates, and the prestigious steelChallenge trophy.

Stay ahead with insights into the latest trends and technologies, positioning yourself as a visionary professional. Experience community spirit through peer **interaction and mentorship** from seasoned industry veterans, shaping your path towards success.



Dive into advanced simulators for **hands-on training** and access a wealth of learning resources at **steeluniversity**.



Increase your **chances of job offers and internships** from leading steel companies and stay ahead with exposure to the latest industry trends and technologies.



Gain global recognition and expand your network with industry leaders, enhancing your resume and opening doors to **new opportunities**.



Showcase your **commitment to innovation and sustainability**, demonstrating leadership in driving sustainable practices and advanced technologies in steelmaking.



steelChallenge-18 Industry and Student Finalists.

“Participating in the **steelChallenge** has given me an opportunity to apply the concepts I learned in the classroom in a real-world scenario”

Srinivasan **DHANARAJ**

Indian Institute of Technology, Hyderabad
steelChallenge-18 Student World Champion



Join **steelChallenge-19!**

We invite you to **participate in steelChallenge-19**. This is your opportunity to develop essential skills, gain global recognition, and connect with industry leaders. **Registration opens on September 1st, 2024.**

Participate individually by registering at steeluniversity.org or ask your company or university to contact **steeluniversity** (muract@steeluniversity.org or avila@steeluniversity.org).

Don't miss out on this transformative journey. **Join us in inspiring and showcasing exceptional talent, promoting sustainable innovations, and ensuring a brighter future for the steel industry.**



steelChallenge-19

Regional Championship
26 November 2024

Register at steeluniversity.org



steeluniversity

World Steel Association

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worldsteel
ASSOCIATION