Bridging Borders,
Connecting Educators,
Advancing STEM Education!

ICSE Academy 2022-2025

European collaboration and mobility in STEM teacher education

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ICSE Academy
International Centre for STEM Education

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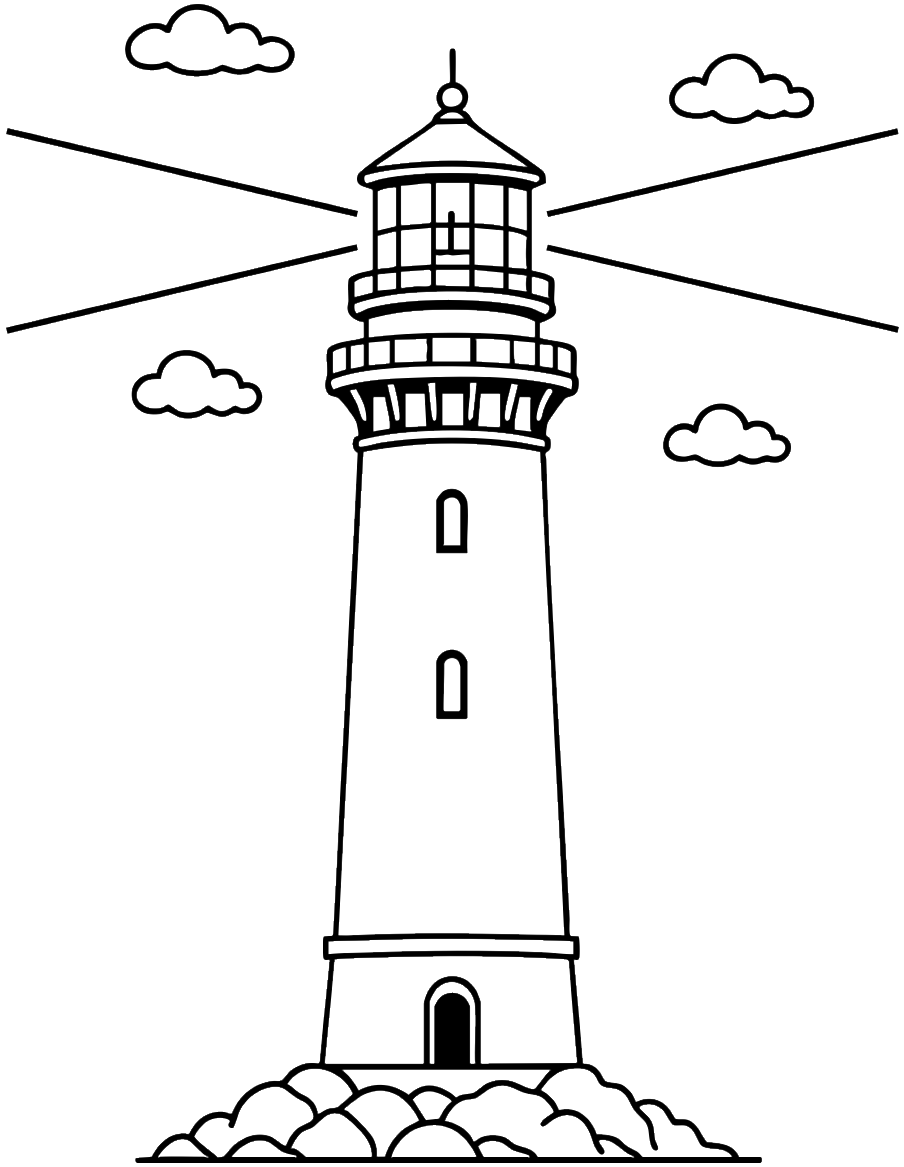

ICSE Academy

We are a lighthouse for **STEM teacher education** and **training** in Europe.

02 our values

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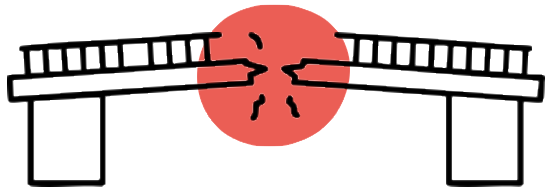
We need to bridge the gap in STEM Teacher Education across Europe!



Current challenges of European STEM Teacher Education

Current societal challenges are not sufficiently integrated into STEM teacher education

STEM teachers are in short supply

Lack of international professional exchange offers

Difficulty to make STEM education interdisciplinary

We need to bridge the gap in STEM Teacher Education across Europe!

STEM teaching content

85%

of teachers **feel not prepared** for interdisciplinary, sustainable and diverse STEM teaching.

Not enough **real-world applications** in teacher training.

We need to bridge the gap in STEM Teacher Education across Europe!

International professional exchange opportunities

70%

of teachers never had an experience with international exchange.

lack of awareness among teachers

lack of information on international exchange formats

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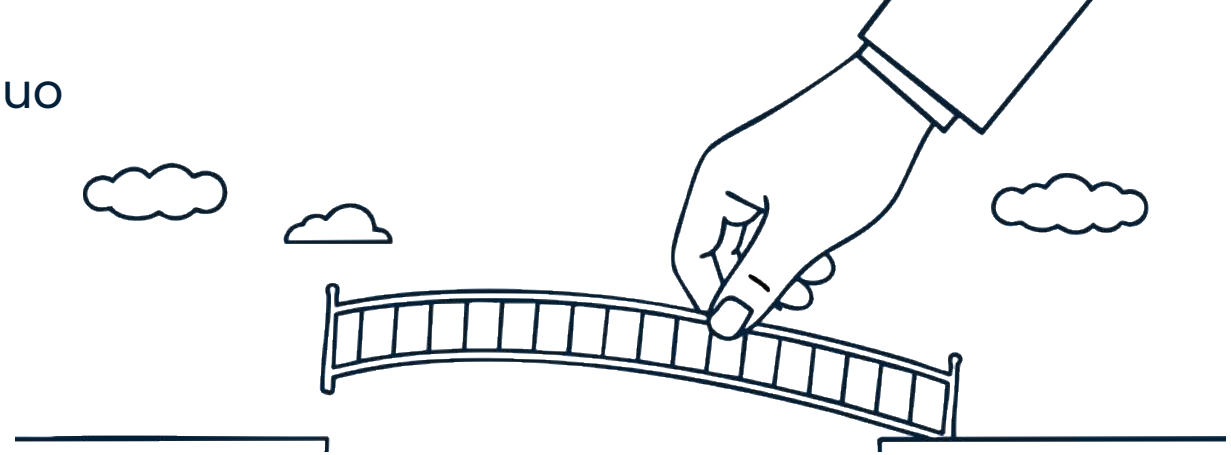

Not enough

- Teachers
- Exchange & mobility
- Diversity & sustainability
- Interdisciplinarity
- Knowledge of & access to programs

Europe needs **solutions** now!

Our vision

- Qualifying teachers
- Empowering students
- Networking Europe
- Making education sustainable & diverse
- Involving politics

Strengthening collaboration, innovation and teacher mobility.

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Recognize the need for change?

3 ICSE Academy learning formats

- Job Shadowing & peer learning
- Interdisciplinary workshops
- European summer schools

Why those formats?

- Mobility for teachers
- Real-life context
- Connect future & current teachers

What we achieve

- Stronger collaboration
- Innovative, inclusive STEM teaching
- European Network for STEM teacher education.

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See the impact

Teachers

- Empowerment & Motivation
- Awareness of EU priorities
- Competence through International exchange

Policy

- Informing policy
- Dissemination & communication
- Analyzing needs
- Institutionalizing exchange structures

Education

- Sustainability, digitalization, and inclusion
- Competence through international exchange
- Implementation of EU peer learning formats

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Let's transform STEM Education together

teaching materials

Universities

- Access free teaching materials & trainings
- Collaborate in future projects
- Co-develop STEM professional learning
- Join the ICSE Academy network

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Let's transform STEM Education together

Policy briefs

Policy

- Find solutions to STEM teacher challenges
- Join us at the Educating the Educators conference
- Support scalable teacher training
- Engage in discussions and collaborate with us

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Let's transform STEM Education together

eTwinning

Teachers

- Benefit from our hands-on teaching materials
- Collaborate via eTwinning
- Join online workshops
- Tell your colleagues about your work

A strong European Partnership

1
shared
mission

13
policy
actors

65
schools

13
universities

13 countries
Austria
Cyprus
Czech Republic
Germany
Greece
Lithuania
Malta
Netherlands
Norway
Slovak Republic
Spain
Sweden
Turkey

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The ICSE Network

13 policy actors

1 shared mission

13 universities

65 schools

13 Participating universities

University of Klagenfurt
University of Nicosia
Charles University
International STEM Centre;
University of Education Freiburg
National and Kapodistrian University of Athens
Vilnius University
University of Malta
Utrecht University
Norwegian University of Science and Technology
Constantine the Philosopher University in Nitra
University of Jaén
Jönköping University
Hacettepe University

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References

eTwinning platform

online international workshops

STEM teaching materials

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