

# *Inaugural Virtual Session*

**Compulsory Peace Education & ICTs  
K-12 and Beyond**

*A Vision For*  
**The Summit Of The Future**

**#UNGA79**

**Keynote Speech - October 5, 2024**





NEW JERSEY CENTER  
FOR TEACHING & LEARNING

# Providing Equitable Access to Education and Good Jobs

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NJCTL is an independent nonprofit organization founded by the New Jersey Education Association (NJ's largest teachers union) in 2007.

It was licensed as a New Jersey Graduate School of Education in 2020.

Its programs received initial accreditation in 2024.

Its goals are to reduce teacher stress, help improve student outcomes, and create a scalable solution to the STEM crisis.



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Our MISSION is to empower communities of educators and families to lead school improvement, so that all children have access to a high-quality education.

Our FOCUS is on the teaching and learning of science, mathematics and computer science.

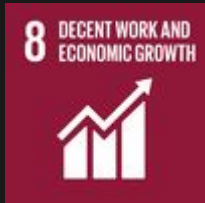
<https://njctl.org/who-we-are/>

# United Nations Sustainable Development Goals

NJCTL's work in New Jersey since 2007, and Africa since 2012, has been aligned with several UN SDGs, most directly with SDG-4 and SDG-8.



SDG-4: Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all



SDG-8: Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all

# STEM Career Paths

STEM\* knowledge and skills are needed for many of the high-paying jobs. This need is only increasing with time.

1. Each society must improve its STEM education so that its youth can do those jobs.
2. Each society must make those high-paying jobs available within their borders so that young people do not have to emigrate to get them.

\*Science, Technology, Engineering, and Mathematics

# STEM Jobs

These are some jobs that directly require STEM education.

Science

Medicine

Technology

Computer Science

Engineering

Agricultural Science

Mathematics

Veterinary Science

Employment in these fields is strong and growing.

# STEM-Related Jobs

These are examples of jobs that require the analytical thinking developed by a STEM education.

Business

Finance

Urban Planning

Industrial Design

Teaching

Investment Banking

Law

Corporate Planning

Architecture

Industrial Design



# STEM Education and ICT

The problem is that STEM education requires STEM teachers.

But becoming a STEM teacher requires a STEM education.

This is a self-perpetuating problem.

There has been no way to create the STEM teachers needed to make STEM education available to all, including to those who want to become STEM teachers.

# STEM Education and ICT

Using NJCTL's online, asynchronous courses, adults anywhere can get a high-quality STEM education.

Some of them can then become STEM teachers.

These new STEM teachers can then provide a STEM education to their K-12 students using NJCTL free, editable digital materials and readily available classroom technology.

# Digital Devices and Curriculum Materials

Transporting, updating and maintaining physical textbooks, curriculum materials, and school laboratories is inefficient and leads to out-of-date materials and high cost.

Equipping classrooms with large LCD interactive screens allows constantly updated materials with quality graphics to be shared with students.

Providing students digital devices allows them to bring those same resources home.

# Digital Devices and Curriculum Materials

The digital infrastructure built for this educational initiative will also provide the ICT backbone to support critical needs, not just education.

That includes, but is not limited to:

- Banking
- Medicine
- Entertainment
- Local Commerce
- High-Paying International Jobs

# High-Paying International Jobs

The last point, High-Paying International Jobs, closes the loop on this path towards peace, justice, and equity.

Students who get a STEM education, delivered by digital devices and resources, will be prepared for those high-paying jobs.

The availability of those jobs through ICT would motivate students to complete school; it will give them hope.

Having those jobs available within their country would provide a path to a good life without the need to emigrate to a developed country.

# High-Paying International Career Paths

The goal is that the flow of international currency into each country, to pay the people doing those STEM or STEM-related jobs, would benefit the entire economy.

The poverty and hopelessness that leads to unhappiness and war would be reduced over time.

Each person would benefit from the global economy while staying within their own borders, not leaving their families and culture behind.



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