MISTI Global Teaching Labs 2023
MISTI Global Teaching Labs: Learning through Teaching

Africa
- Ghana*
- South Africa*
- South Africa and Botswana*
- Ivory Coast*
- Tunisia*
- Morocco*

Asia
- Korea
- India*
- Kazakhstan*

Europe
- Germany
- Italy
- Norway*
- Armenia
- Georgia*
- Spain
- Andorra*
- England*
- Scotland*
- Wales

Middle East
- Israel
- Arab World*
- MEET*

North America
- Mexico

South America
- Brazil
- Chile/Uruguay
GTL at a Glance

- **How many**: More than 400 MIT students placed in 2020
- **When**: Avg. 3.5 weeks between Jan 9th–Feb 3rd; Dates vary across programs
- **What**: Teaching one or more subjects
- **How**: All teaching takes place in ENGLISH
  - MIT Students teach *individually* or in *groups* up to 20 hours a week mostly with regular teachers’ supervision. Size of teaching teams varies by school/country. Teaching must be HANDS ON
- **Housing**: Secured by hosts at school/family or by MISTI program; most students stay with families or at school dorms
- **Compensation**: Housing, airfare, and small stipend covering BASIC costs
- **Training**: Selected candidates **must** commit to participate in training (about 6–8 sessions on teaching and host country’s culture and education system).
What host schools are looking for:

- Introduce new subjects or reinforce traditional ones with **hands-on teaching**
- Stimulate student interest in STEM topics and expose them to positive role models
- Familiarize students and teachers with MIT experiential methodology, focusing on problem solving
- Learn about MIT, US college culture, and US university system
- Improve English language skills
- Connect with MIT K-12 programs designed for high school science teachers
Why do MIT students do GTL?

- Learn about different education systems
- Practice experiential teaching and deepen subject knowledge
- Improve oral communication, learn to adapt and improvise
- Build skills to TA for a MIT course, explore interest in teaching career
- Get frustrated with/learn to appreciate another culture
- Gain confidence dealing with different cultural styles and contexts
- Improve language skills
- Prepare for a longer stay abroad
- See the world from the MISTI insider perspective
“Whenever you think you understand something, try to explain that to a kid!”

- Edgar Minasyan (Summer 2015 GTL – Armenia), describing GTL to Armenia’s President

GTL is a lot of work, but a lot of fun too!
How to Apply
Deadline September 22nd

Apply Online, by going to the [https://misti.mit.edu/apply-now](https://misti.mit.edu/apply-now) page, scroll down to the GTL section.

1. Application Process and Deadlines
   - Apply Here
   - Already started an application? Log in here.

2. Program Options
   - Please select program options before continuing.
   - Select Term:
     - IAP 2023
   - [Cancel] [Continue]
Selection and Matching Process

- You can select more than 1 country, but will first be considered by your 1st choice country, then 2nd, and so on. There is no guarantee your second choice program will be considering you though we will do our best to share applications among programs.
- Make sure your country/subject/housing choices match.
- Select applicants will be contacted by country managers for interviews.
- Country selection should be completed between mid October and mid November.
- Training will take place between November and end of classes.
What We Look For

- Proven knowledge of subjects to be taught
- Exposure to MIT teaching & learning methods (only a few programs take freshmen)
- Experience in hands-on activities, preferably subject-related
- Teaching experience & passion for teaching
- Good Communication skills
- Curiosity and flexibility
- Knowledge of host country language always a plus (required by some programs)
GTL Italy

- **2023 Dates:** Jan 7th–28th
- **Subjects:** Students teach mostly STEM (PHYSICS) and DEBATE at 40+ high schools
- **Language:** Some Italian a plus—but not required
- **Location:** Most schools are in small towns you never heard of, mostly in Northern Italy.
- **Teaching Format:**
  - Some, but not all schools, host more than one student
  - All teaching is done individually – up to 20 hours a week
  - Students teach one or two curriculum related subjects – TEAL style
  - Each student has a mentor at the host school
- **Living:** Students stay with families chosen by host school
- **Stipend:** Basic costs covered through a combination of host schools (800 Euros stipend) and program funding (travel costs covered)
- **Timeline:** Select students will be called in for interviews, placements finalized by mid November
- **Spots:** between 30 and 60
GTL Spain

- **2023 Dates:** Teaching dates January 9\textsuperscript{th} – February 3\textsuperscript{rd}
- **Location:** Public/Semi-Private Schools in and around Barcelona, Madrid, Mallorca
- **Language:** Knowledge of Spanish preferred but not required
- **Subjects:** All STEM subjects + technology, robotics and programming
- **Living/stipend:** Homestays with families associated with schools. Students receive a small weekly stipend
- **Teaching format:** Individual placements with host teacher, some workshops (approx. 20 hrs/week)
- **Spots:** 30 +/−
- **Enthusiasm, positive attitude and flexibility are a plus!**
GTL Andorra

2023 Dates: January 9th – February 3rd

Location: Principality of Andorra. Tiny country located in the Pyrenees Mountains between Spain and France (official languages: Spanish, French and Catalan)

Language: Knowledge of Spanish preferred but not required. Seeking 1 French speaker

Living/stipend: Homestays with families associated with schools. Students receive a small weekly stipend

Subjects: All STEM subjects + technology, robotics and programming (approx. 20 hrs/week)

Teaching format: Students placed in individual schools and matched with local teacher who will coordinate schedule

Spots: 5 spots
GTL Scotland

2023 Dates: Jan 7 – Feb 3
Location: Aberdeen
Language: English
Subjects: Robotics; Green Tech; Sustainable Energy; Biotechnology; AI & Data Science; Entrepreneurship
Teaching format: K-12 classes, workshops and clubs
Spots: 2
Eligibility: Juniors and above
GTL Wales

2023 Dates: Jan 7 – Jan 31
Location: Across Wales
Living/stipend: Host families. Weekly stipend.
Language: English
Subjects: Physics, Biology, Maths, Computer Science, Chemistry, Geography, Sustainability, Robotics, Design
Teaching format: K–12 classes, community colleges classes, workshops and clubs, panels
Spots: 12
Eligibility: Enthusiasm for your subject and some previous experience teaching / tutoring / mentoring

Info sessions with GTL Wales partners on Monday Sep 19th at MISTI office (E40) from 12:30-1:30pm and 5:30pm-6:30pm
bit.ly/gtl-wales-info
GTL England

2023 Dates: Jan 7 – Feb 3
Location: Northwest England
Language: English
Subjects: Physics, Biology, Maths, Chemistry,
Teaching format: K-12 classes, workshops and clubs, panels
Spots: 2
Eligibility: Juniors and above
GTL Norway

Subjects: Math and Physics; Molecular Biology; Programming; Entrepreneurship and Innovation

Location: Ullern and Fredrikstad (near Oslo)

6 spots available

Previous teaching, TAing, mentoring experience required

Dates: 3/3.5 weeks (last day of teaching January 27)

All travel and living expenses covered

Housing: Local host families

Extracurriculars: Cross-country skiing, hiking, drinking warm beverages, and more!
MISTI Eurasia: Armenia, Kazakhstan, Georgia

**Location:** Yerevan, Nur-Sultan, Almaty, Tbilisi

**Living:** Host families/apartments

**Language:** Not required

**Subjects:** STEM, design, Space

**Teaching format:** varies

**Spots:** 20 (2/host organization)

**Hosts:** Posted on website!
== GTL Germany ==

**Dates:** January 9 – February 3, 2023

**Location:** All over Germany!

**Living/stipend:** Travel and expenses covered; housing with host family connected to school

**Language:** None required

**Subjects:** All STEM – Bio, Chem, CS, Math, Physics

**Teaching format:** Standard hands-on, 10h/wk; all students teach in pairs

**Spots:** 25–35

- Special “buddy” program w/ university partners in Stuttgart & Regensburg (6 ea)
  - Stuttgart program includes “buddy” visit to MIT in Mar/Apr, w/Edgerton Ctr!
GTL Chile/Uruguay

**Dates:** January 9–27

**Location:** Chile and Uruguay

**Living/stipend:** Apartments with other MIT students + stipend

**Language:** Chile: Basic Spanish

  Uruguay: English

**Subjects:** Chile: Intro to Python (6.0001)

  Uruguay: Machine Learning, Entrepreneurship

**Teaching format:** In–person, workshop.

**Spots:** Chile: at least 4

  Uruguay: at least 10
GTL Mexico

- **Dates:** Varies per school 3 or 4 weeks. Starting January 9th or 16th 2023

- **Locations:** Mexico City, Merida, Aguascalientes, San Luis Potosi, Monterrey and Queretaro

- **Teaching format:** at least 2 MIT students per school. Paired up to teach with local teachers and/or prepare hands-on workshops

- **30+ Spots**

- **Living:** Host family, school residences, or shared apartment depending on school

- **Language:** Knowledge of Spanish is preferred but not necessary

- **Subjects:**
  - Teaching STEM to middle school girls and high schoolers
  - Leading workshops in engineering and coding for high school students
Global Teaching (GTL) and Startup Labs (GSL) – Brazil

**Dates:** Arrival in Brazil Jan 6 or 7, Programs start on Jan 9. Departure from Brazil on Feb 3.

**Locations:** Multiple.

**Living/stipend:** All costs covered plus generous stipend during fall (prepping the workshops ~ 2 hours/week) and IAP.

**Language:** Portuguese not mandatory for GSL (taught in English), but a plus for GTLs.

**Subjects:**
- **Rover Build-a-thon** *(Teaching Lab high school students from public schools)*
- **The Polymers of Soccer** *(Teaching Lab high school students from public schools)*
- **Health Tech** *(Startup Lab / College students)*

Teaching format: Hands-on workshops, PBL.

**Spots:** 15–20
GTL – MEET
Middle East Entrepreneurs of Tomorrow

Location: Jerusalem
Dates: Four weeks, from Sunday, January 8, to Thursday, February 2
About: MEET brings together young Israeli and Palestinian leaders to create positive change through technology and entrepreneurship.
Subject: Computer Science: Python, iOS, Android, and more
Format: One team of three students
Accommodations: Apartment or dormitory
GTL–Arab World

**Location:** Jordan, Bahrain  
**Dates:** Four weeks, from January 8 to February 2  
**About:** Teach STEM subjects to high school and college students  
**Subjects:** STEM  
**Format:** Four to eight students total  
**Accommodations:** Apartment or dormitory
GTL Israel: Start-Up Nation

Locations: Across Israel
Dates: Four weeks, from January 8 to February 2
Subjects and format: Varies by track
Accommodation: Hostels, dorms, and apartments
Language requirement: Six-hour minicourse in Hebrew

Tracks: Israel 2023
• Team teach project-based STEM and cultural exchange subjects to Israeli and Arab high school students all over the country
• Teach agtech, robotics, urban farming, and environmental science at an agricultural research greenhouse on a kibbutz
• Teach marine biology and environmental science at a youth village on the Mediterranean coast
• Teach one-week seminars in entrepreneurship and innovation at a different school every week
• Teach one-week seminars in computer science and STEM subjects at a different school every week
## GTL “Classic” – South Africa, Botswana, Morocco

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<th>Location</th>
<th>Subject</th>
<th>Courses</th>
<th>Spots</th>
<th>Language</th>
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<td><strong>South Africa</strong></td>
<td>Renewable Energy/Green Hydrogen</td>
<td>1, 2, 3, 5, 6, 8, 10, 11, 13, 14, 15, 22</td>
<td>4 – 5</td>
<td>English</td>
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<tr>
<td>Jan 9 – 20</td>
<td>Durban</td>
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<tr>
<td><strong>South Africa/Botswana</strong></td>
<td>“The Robot Next Door”</td>
<td>All with emphasis on 2, 6, and 9</td>
<td>10</td>
<td>English</td>
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<tr>
<td>Jan 3 – 16 (Early IAP)</td>
<td>Johannesburg/Gaborone</td>
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<tr>
<td><strong>Morocco</strong></td>
<td>“Making the Most of Maker-Spaces”</td>
<td>Engineering Courses</td>
<td>6</td>
<td>French, Arabic, English</td>
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<tr>
<td>Jan 9 – End of IAP</td>
<td>Agadir, Casablanca, Rabat</td>
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### GTL “IMO” – Ghana, Ivory Coast, South Africa, Tunisia

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<thead>
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<th>Dates*</th>
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<th>Subject</th>
<th>Spots</th>
<th>Language</th>
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</thead>
<tbody>
<tr>
<td>Ghana</td>
<td>Early IAP, 2 weeks</td>
<td>Accra Math / College Admissions</td>
<td>3</td>
<td>English</td>
</tr>
<tr>
<td>Ivory Coast*</td>
<td>TBD (2 Weeks)</td>
<td>Abidjan Math / College Admissions</td>
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<td>French, English</td>
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<tr>
<td>South Africa</td>
<td>Jan 5 – 16</td>
<td>Cape Town or Stellenbosch</td>
<td>Math / College Admissions</td>
<td>3</td>
</tr>
<tr>
<td>Tunisia</td>
<td>Early IAP, 2 Weeks</td>
<td>Tunis Math / College Admissions</td>
<td>3</td>
<td>French, Arabic, English</td>
</tr>
</tbody>
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MIT–India GTL

**Dates:** Three weeks [January 2023]

**Location:** West Bengal and Bangalore

**Living/stipend:** Stipend provided; Housing provided by organization

**Language:** No language requirement

**Subjects:** All STEM subjects; Course 6

**Teaching format:** Workshop; Teaching facilitation

**Spots:** Two MIT students per organization; Paired up to prepare workshops to train local teachers and students; We have opportunities at two different organizations
MIT-Korea GTL

- **Mission**: Promote MS/HS students’ motivation for STEM learning and help build stronger foundation for lifelong education and higher career aspirations.

- **Means**: Independently-developed Mens et Manus, hands-on STEM workshops + classes taught 3-4 wks, 4-5 hrs/day as extracurricular program in Jan.

- **Method**: Teams of 2-4 develop workshops with $3-4k budget. ≈2-4 hrs/wk prep work Oct-Dec.

- **Location**: HS for NKorea escapees, non-profits for disadvantaged students, int'l MS/HS.

- **Need**: Passion & talent for hands-on teaching/learning, ability to excite about STEM concepts. Also:
  - Full-time commit in Jan, 40-60 hrs/wk
  - Lang not required but need fluent Korean/Chinese speakers for select placements.
  - Serious interest in 2 consecutive yrs of Korea GTL for deeper global experience is a plus.

“All physical theories … ought to lend themselves to so simple a description that even a child could understand them.” -- Albert Einstein
MISTI GTL Questions?

Contact: MISTI@MIT.EDU