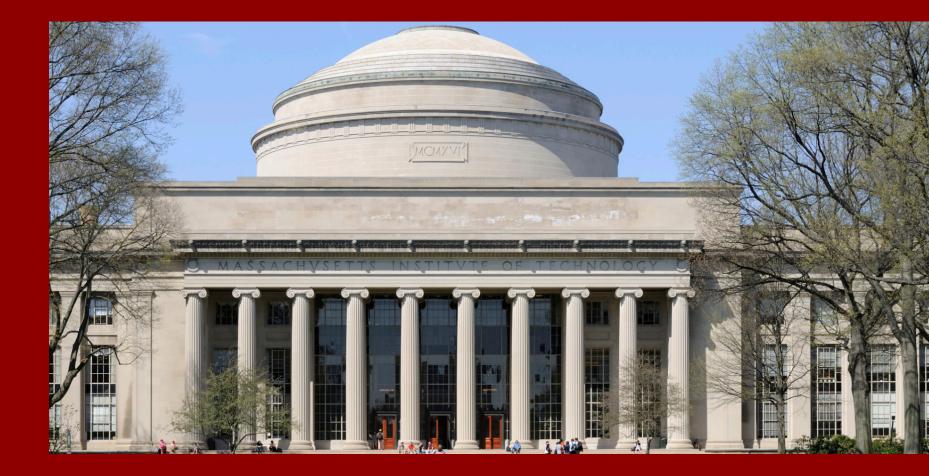


MISTI MIT INTERNATIONAL SCIENCE AND TECHNOLOGY INITIATIVES





MASSACHUSETTS INSTITUTE OF TECHNOLOGY





The mission of MIT is to **advance knowledge** and educate students in science, technology, and other areas of scholarship that will best serve the nation and **the world in the 21st century**. MIT is dedicated to providing its students with an education that combines rigorous academic study and the excitement of **discovery**.









MENS ET MANUS







great ideas

change the world

MIT SCHOOL OF HUMANITIES ARTS AND SOCIAL SCIENCES



MIT SCHOOLS

School of Architecture and Planning

- Architecture
- Media Arts and Sciences
- Urban Studies and Planning

School of Engineering

Aeronautics and Astronautics Biological Engineering Chemical Engineering Civil and Environmental Engineering Electrical Engineering and Computer Science Engineering Systems Materials Science and Engineering Mechanical Engineering Nuclear Science and Engineering Institute for Medical Engineering and Science

School of Science

Biology Brain and Cognitive Sciences Chemistry Earth, Atmospheric, and Planetary Sciences Mathematics Physics

School of Humanities, Arts and Social Sciences

Anthropology Comparative Media Studies/Writing Economics Global Studies and Languages History Humanities Linguistics and Philosophy Literature Music and Theater Arts Political Science Science, Technology and Society

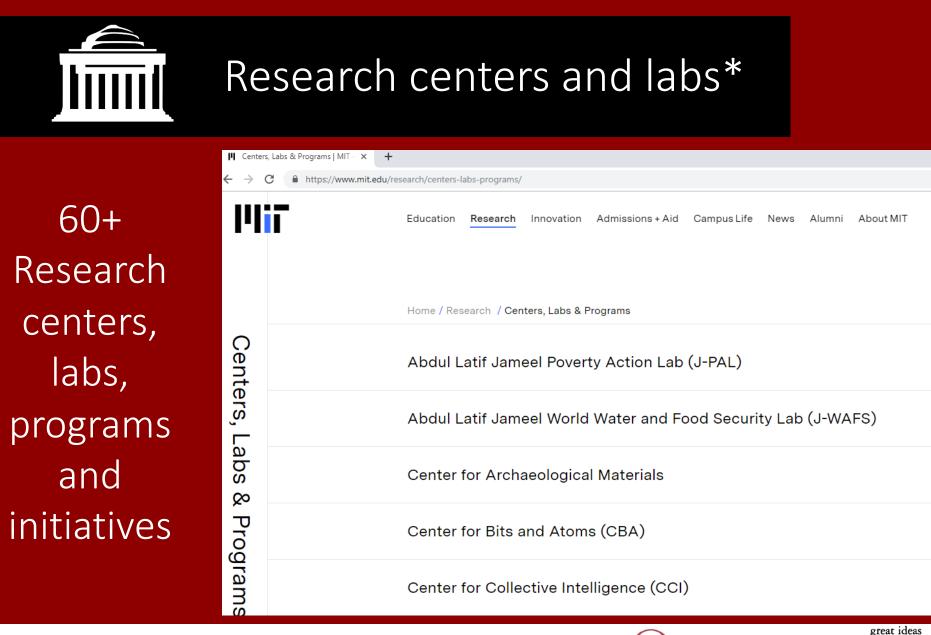
MIT Sloan School of Management

Management













change the world

MIT SCHOOL OF HUMANITIES ARTS AND SOCIAL SCIENCES



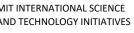
The GDP of a nation formed by businesses started by MIT graduates would be **\$2 trillion.** This would rank them as 10th in the world (equivalent to Italy, the UK, and Brazil).

25,800

active companies have been started by MIT alumni Intel, Bose, Koch Industries, Texas Instruments, Dropbox & Campbell Soup founded by MIT Alums

3.3 million

are employed by companies started by MIT alumni









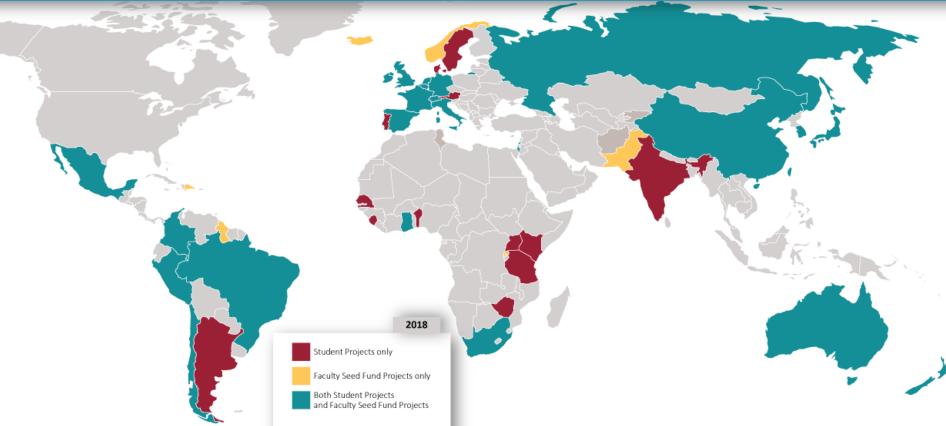
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AT MIT, WE EDUCATE OUR STUDENTS TO TAKE ON THE WORLD'S GREAT CHALLENGES FOR THE BETTERMENT OF HUMANKIND. WHAT BETTER PREPARATION THAN FOR THEM TO EXPLORE THE WORLD, CONFRONT ITS CHALLENGES AND EXPERIENCE ITS HUMANITY THROUGH MISTI?

- MIT President L. Rafael Reif

PROGRAMS









"MIT is a community eager to solve hard problems in service to the nation and the world."

-MIT President L. Rafael Reif



Connect international partners with MIT

OUR MISSION

























MISTI's award-winning international internship program provides a one-of-a-kind, worldclass experience for MIT students: **the opportunity to gain real-life work experience in leading companies and labs around the world.**

KEY FACTS:

- Internships abroad in companies, universities, non-profits and research labs
- Student expenses are covered, including stipend and airfare
- Internships last **3 to 12 months**
- **MISTI is open to all MIT students:** undergraduates, graduate students and graduating students
- There are opportunities in every MIT major
- Most students go during the summer, but internships are available year-round











MISTI provides MIT students with the chance to gain real-life work experience in leading companies and labs around the world. Each year 1110+ students are matched with international **internship**, **research**, **entrepreneurial** and **teaching opportunities**.

• Pre-selected from the top tier of MIT students (4.0 minimum GPA)

- Recommended by their professors
- Prepared in the language and culture of the host country
- Instructed on living and working in the host country
- Skilled in the lab/work setting thanks to previous internships, UROPs and other hands-on MIT opportunities
- Ready to hit the ground running









2 Agosto 2018

rograma de educación internacional:

U. de Santiago recibe por primera vez a un estudiante del MIT para realizar una pasantía

Se trata de Enriko Granadoz Chávez, perteneciente a segundo año de Ingeniería en Ciencia de los Materiales, quien se convirtió en el primer estudiante del prestigioso Massachusetts Institute of Technology que se desempeñará durante una temporada en nuestro Plantel. El joven llegó a la U. de Santiago a través del programa Misti del MIT, cuyo objetivo es financiar y fortalecer la conexión y colaboración entre pares de Casas de Estudios, principalmente enfocado a la investigación. "Espero que desde ahora más estudiantes del MIT lleguen a esta Universidad, donde me acogieron con calidez y tuve una experiencia muy









Students are matched with **foreign high school hosts** throughout the country for three weeks in January. At each location students prepare tailored courses on **science**, **technology, engineering and math (STEM) subjects** that complement the school's curriculum and highlight MIT's hands-on approach to education.

KEY FACTS:

- GTL takes place over MIT's January session IAP; all other programs occur in the summer.
- Students apply and are selected in the fall.
- Participants attend MISTI Prep and Training sessions on teaching methodologies and the culture and society of the host country.
- There are **no foreign language requirements** for participation in the program







MISTI's Global Teaching Labs students share MIT's hands-on approach to education by teaching STEM subjects at high schools and universities across the globe.

GTL students are currently teaching in:

FRANCE GEORGIA GERMANY ISRAEL ITALY JORDAN KAZAKHSTAN KOREA MEXICO

MOROCCO SPAIN / ANDORRA

PERU CHILE BRAZIL

1800

MIT students have taught abroad through GTL 424

GTL students in 2018 15+ countries have hosted GTL students

Past GTL host countries include:

RUSSIA SOUTH AFRICA



MISTI GSL promotes development in emerging regions by **cultivating young technology entrepreneurs**. GSL develops curriculum materials, software technologies, platforms, and networks that enable **undergraduate students in emerging regions to innovate** in the area of information and communication technologies (ICTs).

GSL partners with universities in emerging regions and organizes advanced courses taught by MIT students/instructors. The courses focus on **mobile and Internet technologies**, and are structured so that our students are awakened to the commercial possibilities of the technologies.

Components of the course include detailed **technical curriculum, funded business competitions, guest lectures, and networking events** all to help our students develop and realize their ideas.











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THE GSF PROGRAM IS AN EXTRAORDINARY BENEFIT TO THE MIT COMMUNITY AND WAS CRITICAL FOR US IN THIS PROJECT WE ARE EXCITED TO CONTINUE TO BE A PART OF IT AS WE INITIATE ADDITIONAL INTERNATIONAL COLLABORATIONS.

- Matthew Shoulders, MIT Chemistry Assistant Professor



MISTI GLOBAL SEED FUNDS

MISTI Global Seed Funds (GSF) support MIT's global engagement by promoting and supporting early-stage collaborations between MIT researchers and their counterparts around the globe.

Many of the joint projects we fund lead to additional grant awards and the development of **valuable long-term relationships** between international researchers and MIT faculty and students.







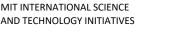
Up to USD \$20,000 per project, 2 projects a year

Interns

Internships for MIT students, UG+G

Frame

For further collaborations









HOW IT WORKS

MISTI GSF comprises a general fund for projects in any country and several country funds with their own requirements. **Most funds provide a maximum of \$20,000 per proposal**.

Proposals must be jointly submitted by the MIT and international applicants. Applicants are **encouraged to involve MIT undergraduate and graduate students** in their projects. Funds are intended to be used during the initial phase of developing an international collaboration.

The deadline for the grant cycle is in December; applicants are informed of the results in early May. Funds are available for use over the next 18 months.









HOW IT WORKS

- STEP 1 Identify and contact a MIT researcher (PI status required)
- STEP 2 Work on the proposal, considering a balanced exchanged and inclusion of students.
- STEP 3 The researchers must submit the proposal before the deadline, December 14.











Grantees are selected through a 2-tiered process.

1. SCIENTIFIC COMMITTEE

- Importance of the scientific problem or project and its contribution to the field

2. SELECTION BOARD

- Balanced exchange
- Complementarity
- Newness
- Sustainability









Past Seed Fund Winners.

Synchronization of cortical layers underlies working memory

Field 1: *Brain and Cognitive Sciences* Field 2: *Biology* Subfield: *Cognition*

Non US countries involved in this project

Chile

name	Elias Leiva Salcedo
title	Assistant Professor
institution	Universidad de Santiago de Chile
dept.	Departamento de Biologia
lab/center	Laboratorio de Sistemas Neurales
email	elias.leiva@usach.cl
Chile)

	Main Pl			
name	Earl Miller			
status	Professor			
title	Picower Professor of Neuroscience			
dept.	Brain and Cognitive Sciences (Course 9)			
school	School of Science			
lab/center	The Picower Institute for Learning and Memory			
email	ekmiller@mit.edu			
Has PI status				









Past Seed Fund Winners.

Field 1: Architecture

The Design of Vertical Evacuation Structures as a Response to Tsunami Events in Coastal Cities: The Case of Iquique, Chile

Non US countries involved in this project

Field 2: <i>Urban Studies and Planning</i> Subfield: <i>Disaster Mitigation</i>			Chile				
name	Main Pl—Main Pl		ame	Larisa Ovalles			
	Associate Professor	ste	atus	Principal Research Scientist			
	Associate Professor without tenure	tit	tle	Research Scientist			
	Architecture (Course 4)	de	ept.	Architecture (Course 4)			
	School of Architecture and Planning	sc	chool	School of Architecture and Planning			
lab/center Urban Risk Lab		la	ıb/center	Urban Risk Lab			
email	email mmaz@mit.edu		mail	lovalles@mit.edu			
Has PI status			DOES NOT have PI status				
name	Rodrigo Aguilar Perez) (n	name	Sebastián Laclabere Arenas			
title	School of Architecture Director, Associate	ti	itle	Assistant Professor, School of			
	Professor			Architecture			
institution Universidad de Santiago de Chile USACH		ir	nstitution	Universidad de Santiago de Chile USACH			
dept.	<i>dept.</i> School of Architecture		lept.	School of Architecture			
lab/center School of Architecture		la	ab/center	School of Architecture			
email	email rodrigo.aguilarp@usach.cl		email	maurice.laclabere@usach.cl			
ChileChile							
name	Rodrigo Martin Quijada	[<i>n</i>	name	lvan Jimenez Maturana			
title	Smart City Lab vice principal, Associate	ti	itle	Assistant Professor, School of			
	Professor			Architecture			
institution	Universidad de Santiago de Chile USACH	ir	nstitution	Universidad de Santiago de Chile USACH			
dept.	School of Architecture	d	lept.	School of Architecture			
lab/center	Smart City Lab	la	ab/center	School of Architecture			
email	rodrigo.martin@usach.cl	e	email	ivan.jimenez.m@usach.cl			
ChileChile							





Past Seed Fund Winners. Examples

"La Niebla, una fuente alternativa de recursos hídricos en zonas semiáridas, con sistemas de captación altamente eficiente y usos no tradicionales." P. Cereceda, P. Hernández, J. Leiva and J. de Dios Rivera.

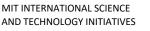
- Sponsor and amount: CORFO: CLP\$179.232.078
- Project dates and number: 2011-2014, 2011-10148-INNOVA_PRODUCCION2011-10148
- Related seed fund: MIT-Chile Pontificia Universidad Católica de Chile Seed Fund, The Fog Harvesting Challenge – Phase II

"Ambulatory Monitoring of Vocal Function to Improve Voice Disorder Assessment." R. E. Hillman. Project includes members from MIT, Massachusetts General Hospital (MGH) and the Universidad Técnica Federico Santa María (USM).

- Sponsor and amount: NIH / National Institute on Deafness and Other Communication Disorders: USD\$560,371
- Project dates and number: 2011-2017 (awarded 2015), 5R33DC011588-05
- Former number: 4R21DC011588-02
- Related seed fund: MIT-Chile Fund, The development of ambulatory biofeedback approaches to more effectively treat common voice disorders

"Clinical Research Center for the Improved Prevention, Diagnosis, and Treatment of Vocal Hyperfunction."

- Sponsor and amount: NIDCD Clinical Research Center (P50): USD\$2,397,233
- Project dates and number: 2017-2022 P50 DC015446 01A1
 Related seed fund: MIT-Chile 2013- "Numerical Modeling and Other Engineering Tools for the Ambulatory Assessment of Vocal Function."









Important Deadlines

Deadline: December 14, 2020

MIT INTERNATIONAL SCIENCE

AND TECHNOLOGY INITIATIVES

MI2

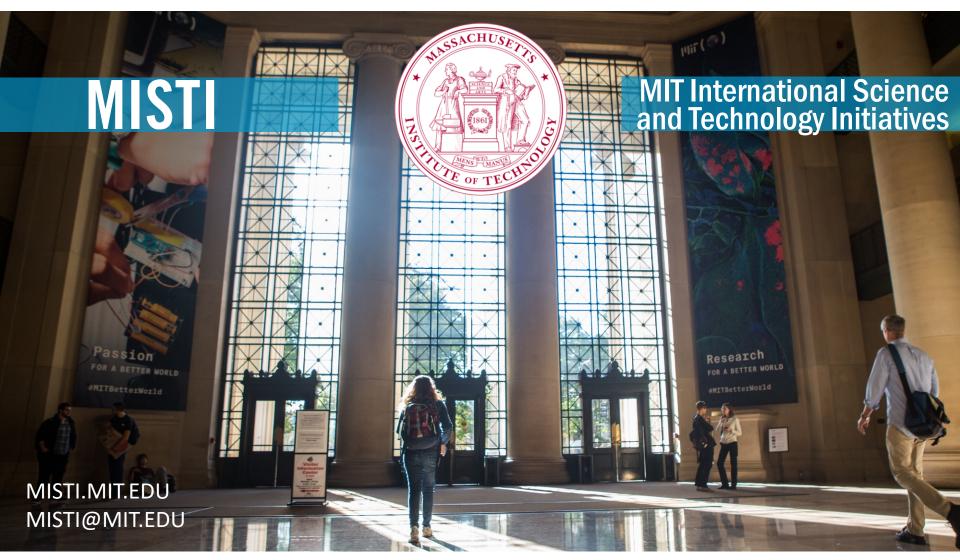
Use of Funds: May 2021-Dec 2022

https://www.mit.edu/research/centers-labs-programs/

https://www.mit.edu/education/schools-anddepartments/







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