

ROYECTOS SEMILLA (Seed Fund) de investigación internacional en el MIT-MISTI

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**UPM
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Real Colegio Complutense en Harvard

26 Trowbridge St. Cambridge. MA 02138, EEUU

- ¿Qué es MIT-UPM Seed Funds?
- Proyectos Previos
- Beneficios e Impactos
- Elegibilidad y Evaluación
- Buscar colaborador, Ideas y Sugerencias
- Información / Preguntas



¿Qué es el MIT-UPM Seed Fund?

Iniciativa **de colaboración MIT y UPM** para apoyar proyectos de investigación en etapas tempranas y promover la colaboración internacional entre PDI's.

- Oportunidad única para poder colaborar con el MIT
- Facilitar intercambios de conocimiento y promover la innovación en áreas identificadas de interés mutuo.
- Proporciona el apoyo financiero necesario para iniciar la colaboración

Marco: *GSF-MISTI*

Global Seed Funds de las MIT International Science and Technology Initiatives



33 proyectos en 8 años

2023-2024:

Artificial Intelligence to support Astrodynamics

Richard Linares (MIT), Victor Rodriguez-Fernandez, (UPM)

ASCENT: Aerospace Schools Collaboration for Entrepreneurship and New Teaching methodologies

Mercedes Balcells-Camps (MIT), Javier Cubas Cano (UPM)

Liquid Metal Methane Pyrolysis for CO2 Free Hydrogen Production

Henry Asegun (MIT), Luis F. Gonzalez-Portillo (UPM)

Modeling Supershear Earthquakes to Forecast Induced Seismicity Hazard

Rubén Juanes (MIT), Luis Cuerto-Felgueroso (UPM)

Monitoring corrosion due to carbonation in concrete using graphene sensors

Tomas Palacios (MIT), Cristina Alia Garcia (UPM)

Intelligent multimodal adjustments for therapeutic serious games

Marzyeh Ghassemi (MIT), Martina Eckert (UPM)

2024-25:

Mapping the multidimensional polarization and segregation in US urban areas

Alex Pentland, (MIT), Rosa María Benito Zafrilla (UPM)

System Architecture of Leo Satellite Constellation

Edward Crawley (MIT), Ramon Martínez Rodríguez-Osorio (UPM)

2021-2022:

High Temperature Applications for Sustainable Energy Conversion and Storage

Asegun Henry, Professor (MIT), Alejandro Datas (UPM)

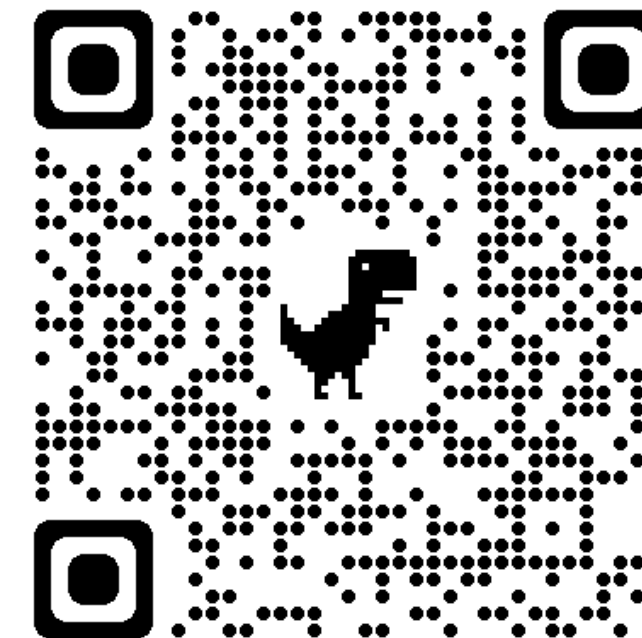
Quantification of cause-and-effect interactions in turbulent flows

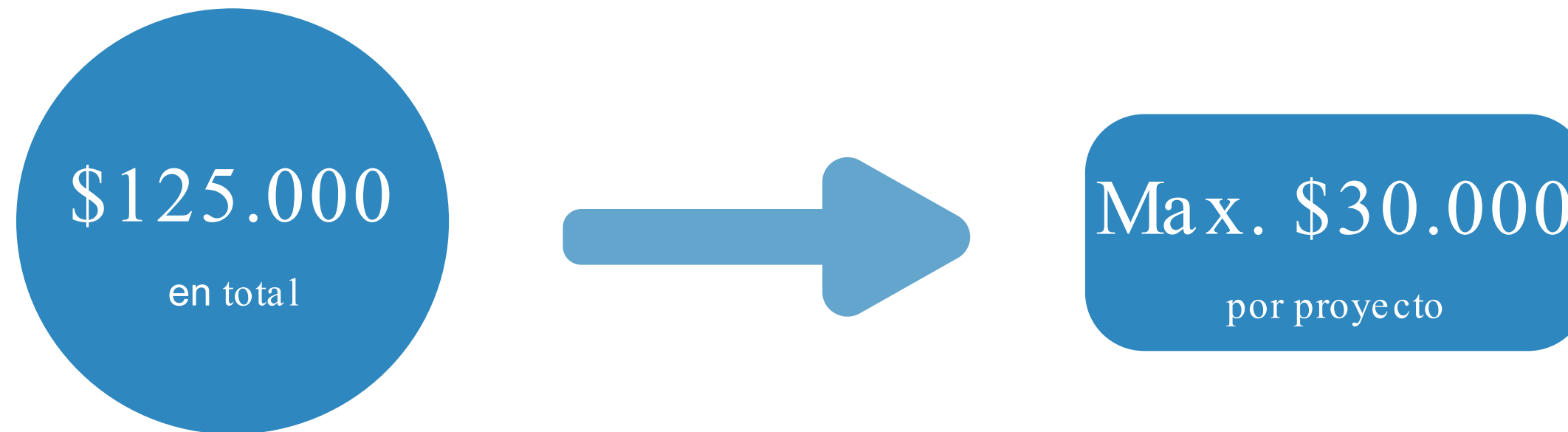
Adrian Lozano-Duran (MIT), Javier Jimenez (UPM)

Cross-Cultural Innovations for Gender Equity in Public Transport

Anson Stewart (MIT), Ines Sanchez de Madariaga (UPM)

.....



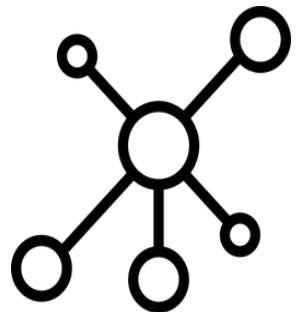


- Objetivo: Ayudar en las fases iniciales del proyecto y fomentar la colaboración.
- Gastos ejecutables hasta en 20 meses
 - Gastos de viajes, alojamientos, organización de reuniones y talleres. No incluidos sueldos o compra de equipamiento, asistencia a conferencias.
- Se buscan buenas propuestas – No se tiene porqué agotar el presupuesto ... pero

tasa de aceptación no es baja



- Avances en Investigación
 - Proyectos innovadores con impacto en diversas áreas
 - Desarrollo de soluciones pioneras en conjunto con el MIT



- **Fortalecimiento de Colaboraciones Internacionales**
 - Mejorar red de contactos a nivel global, fomentando el intercambio de conocimiento y recursos
 - Construir relaciones duraderas con expertos líderes en diferentes campos



- **Aumento del Prestigio Académico y Profesional:**
 - Acceso a recursos exclusivos y conocimientos de vanguardia del MIT
 - Colaborar con la mejor universidad a nivel mundial

- Responsable del MIT y UPM: Profesores con privilegios de investigador principal
- En la UPM:
 - PDI en servicio activo con vinculación permanente, con dedicación a tiempo completo que pertenezca a un Centro, Departamento, Instituto Universitario de investigación, Centro de I+D+I o Grupo de investigación reconocido de la UPM.
- Propuestas conjuntas con colaboradores de ambas universidades

- Submission by December 10th, 2024
- Notifications by May 1st, 2025 (approx.)
- 20 months to work on proposal
- Final Report

Two Tier Process

Scientific Committee: evaluates the importance of the scientific problem or project and its contribution to the field

Advisory Board: focuses on four main components

- Balanced exchange
- Complementarity
- Newness
- Sustainability



In this current or proposed collaboration are planned outside of the seed-funding, and how they will be funded (NSF, ...)

Sections (may change!)

Page 1 – MIT Applicant and Fund Information

Page 2: International collaborators and grant questions

- Brief abstract (250 words)
- Description of collaboration (if applicable)
- Provide a brief history of the collaboration and describe how your work is complementary (max 250 wrd)
- Description of the proposed project (1500 words)
- Exchanges and activities planned, including student participation (250 words)
- In this current or proposed collaboration, what other additional activities are planned outside of the seed funding? (250 words)
- Project sustainability
- After MISTI seed funding, how will the project continue? (limited to 250 words)

Page 3: Proposal Budget

>70% de los PI del MIT han solicitado fondos del proyectos Semilla del GSF-MISTI

- Tener la propuesta pensada.... Tener *abstract* con las líneas principales claras
- Identificar grupo(s) y *faculty*: <https://www.mit.edu/research/centers-labs-programs/>
- Identificar complementariedad, valor para ambos socios (*win-win*)
- Contactar al *faculty* directamente con un mensaje corto, preciso via e-mail
- Si ya tienes relación con el investigador o grupo
 - ... seguid pensando en liderar la propuesta y preparadla ...

Nadie mejor que vosotros sabe poner en valor y defender su propuesta

- En la identificación del faculty importa su alineación con la investigación...
 - Que puede liderar alguien que no es el PI
- En el contacto, poned en copia al asistente del profesor alineado con la propuesta
- En el correo:
 - Asunto claro y conciso para destacar entre la saturación de correos
 - Suelen conocer el programa Global Seed Funds – MISTI.
 - Correo claro, directo, planteando la colaboración (abstract de propuesta)
 - Enfocarlo en los beneficios y oportunidades que pueden obtenerse
- Buscar segundas opciones (si las hay) de grupos y PIs

¡Os podemos ayudar!



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Contactadnos indicando la propuesta:

luis.salgado@upm.es

(cc: delegacion.norteamerica@upm.es)

Trabajamos conjuntamente con MISTI-MIT – Alicia Goldstein



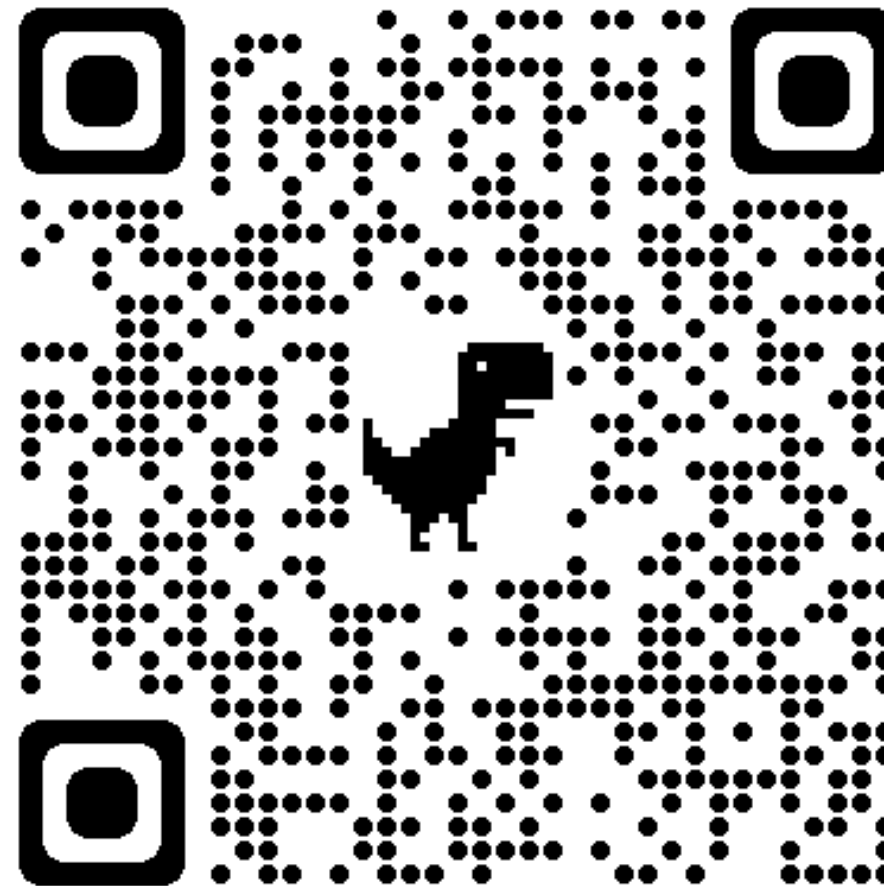
MISTI

MIT Global
Experiences

¿Cómo aplicar?

Deadline: 10 de diciembre de 2024

Aplicación online: <https://misti.mit.edu/faculty-funds/apply-funding>



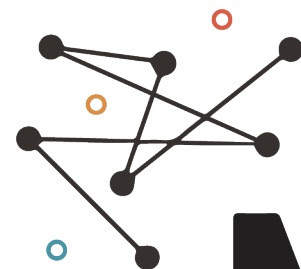
Páginas del
UPM y MIT

www.misti.mit.edu/faculty-funds

www.upm.es/Investigacion/iniciativas/MITSpainUPMSeedFund

FAQ's

www.misti.mit.edu/faculty-funds/faculty-funds-faq



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Institute of
Technology**



MISTI MIT Global
Experiences

Use of Funds

Funding may be used:

- To cover travel and meeting costs to facilitate international projects and collaboration
- For travel to MIT, applicants are eligible for up to \$350 per day in expenses, plus economy-class airfare
- Funding will be made available to MIT applicants and must be administered by his or her department

Use of Funds

Funding may not be used for the following:

- Research-related supplies or equipment
- Salary and/or fringe benefits of any personnel
- Conference and registration fees
- Faculty, staff or students from other institutions (not noted in the proposal)
- Funds are not intended to be used for long-term stays (over two months) abroad or at MIT.
- * However, MISTI may be able to send MIT undergraduate and graduate students to work on faculty-led projects abroad through our [internship program](#)
- Funds may not be used to cover MIT Visiting Student fees. Here is the [MIT visiting student policy](#).
 - Students whose Visiting Student appointment duration is less than 5 weeks will have the visiting student fees waived
 - Students may visit MIT for three weeks or less without applying for Visiting Student status
- Funding should not be used for graduate students' dissertation field work
- At the completion of the grant cycle, all unused funds will be returned to MISTI Global Seed Funds.

Use of Funds

- Funds may not be used to cover MIT Visiting Student fees. Here is the [MIT visiting student policy](#).

The screenshot shows the MIT International Students Office (ISO) website. The header includes the MIT logo, the ISO logo, and the text "International Students Office". Navigation links include SEARCH, FORMS, IMIT, ABOUT ISO, and MIT ADMINS. A secondary navigation bar lists GETTING STARTED, LIFE AT MIT, VISAS AND TRAVEL, MAINTAINING STATUS, EMPLOYMENT, and KNOWLEDGE BASE. The main content area features a banner image of an office with a world map and the text "Visiting Students FAQ". Below the banner is a list of links: Pre-Arrival Checklist, Requesting an I-20 or DS-2019, Obtaining a Visa, Entering the U.S., Arrival at MIT Checklist, Online Check-In, and Orientation Program. The right side of the page shows a breadcrumb trail: Home » Getting Started » Visiting Students FAQ, followed by a section titled "FAQs" with a list of questions: "How do I apply to be a Visiting Student?", "How Long can I stay?", "What is the minimum number of weeks I can stay?", "What documents do I need to submit as part of the application to be a visiting student?", "Am I required to be vaccinated for COVID-19?", "Am I required to be vaccinated for the flu?", and "What kind of health insurance do I need?".

Reimbursing Collaborators

The department representative responsible for managing the seed fund grant should process reimbursements for the international collaborator(s).

There are two ways to reimburse a collaborator:

1. The MIT grantee should collect itemized receipts from the international collaborators and use them to create an expense report in Concur. After the expense report is finished, contact Travel to arrange an international wire transfer. You will need the following information from the collaborators to make the wire transfer:

- Full name
- Home address
- Bank name
- Bank address (of the branch s/he uses)
- Account number
- Bank's SWIFT code

MISTI Program Managers do not process reimbursements for grant awardees.

2. Request a per diem: You must first get approval from your department head, laboratory director, or project supervisor. Once you have departmental approval, you must then submit your request to [VPF Travel and Card Services](https://vpf.mit.edu/per-diem-expenses) for final approval. More information can be found here: <https://vpf.mit.edu/per-diem-expenses>

Review domestic per diem rates for Cambridge, Massachusetts [here](#).

Final report and impact on future funding

- Grantees are required to [complete a final report](#) at the end of the grant period
- Grantees that do not complete final report will not be eligible for any other GSF grants
- In any publications that result from your GSF project, please acknowledge the GSF fund and the country program (e.g. ULVAC-Hayashi MISTI Seed Fund, MIT-Japan Program) in addition to MIT International Science and Technology Initiatives (MISTI). When appropriate please include links to MISTI, the fund, and country program page.
- This work[/activiti/initiative...] was [partially] supported by Universidad Politécnica de Madrid under the MIT-Spain MISTI Seed Fund.
- In part by the project “xxxxxx” through the MIT-Unipi Program

- Details on closing or extending account [here](#)