



The Abdus Salam  
**International Centre  
for Theoretical Physics**  
**Physics Without Frontiers**



# Opportunities

(Slides made by Dr. Kate Shaw)

The International Centre for Theoretical Physics (ICTP)

## MSC & PhD

- **MSc opportunities**, usually you need your own funding. Use Google/Ecosia to search for opportunities
- **PhD scholarships** are usual, but they are competitive.
  - <https://www.findaphd.com/> or <https://academicpositions.com/>
  - Ask your professors for specific sites for the field of your interest (for example for HEP we use INSPIRE). Also talk to fellow students applying for PhDs.

### Applications

- Read eligibility carefully
- Read how to apply carefully. If you miss documentation they may not read the application
- Read about the place you want to study, why do you want to study there?
- Read about the professors areas of research, read up about the big picture of the research field.
- Reference/Recommendation letters are very important.

# MSC & PhD

## CV

- include all research or project work you have done, and presentations, posters.
- Add as much information about your lab work or anything you have done to show your skills.

## Motivation letter

- explain your plans, what research you are interested in and how it aligns with the research at the university and that of the professors.
- Remember each application may get hundreds of applications. Why should they choose you? Try to cultivate skills, do online courses, and communicate your skills, computing skills, research experience well.

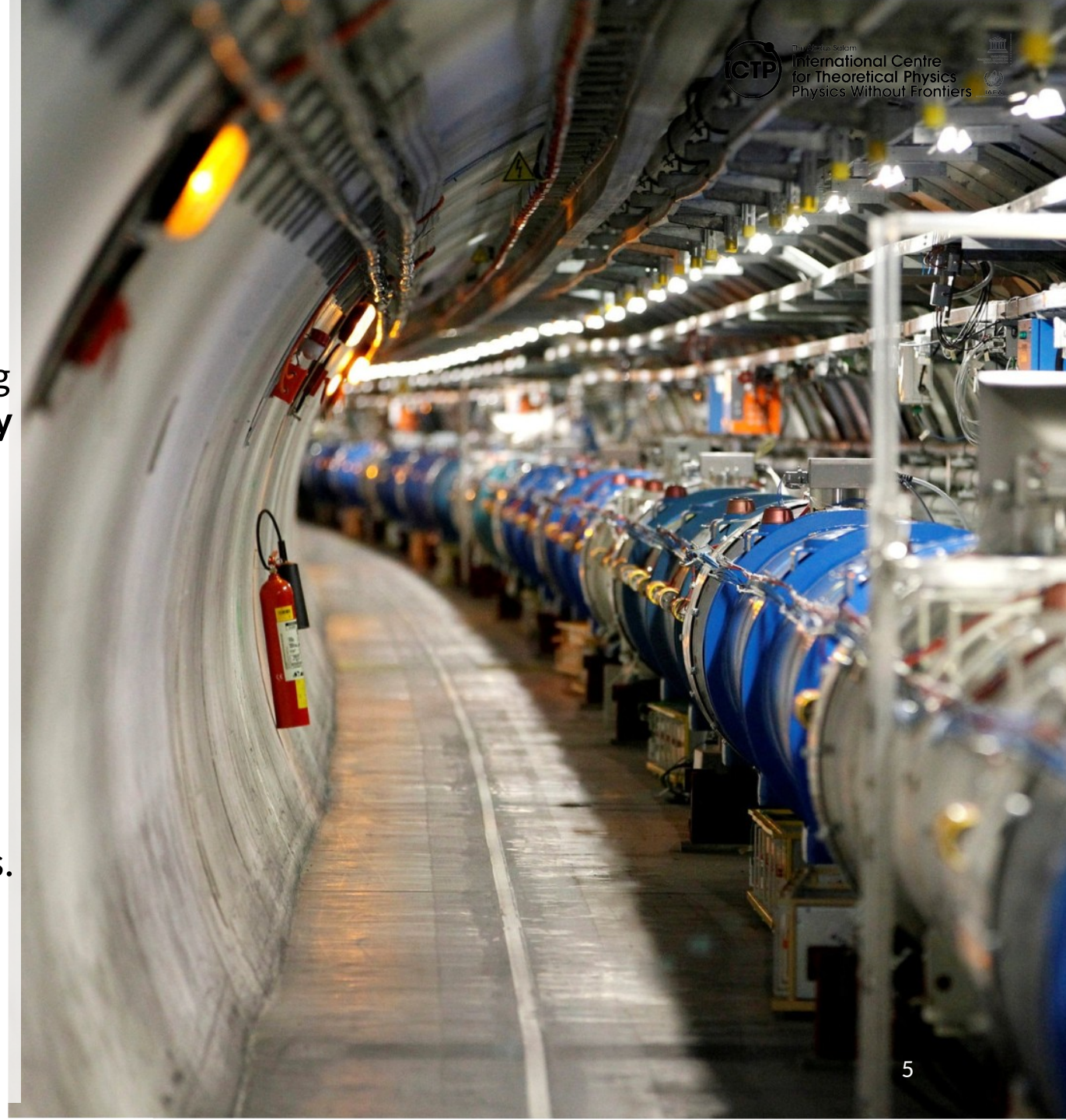
# MSC & PhD

## Interview

- If you get an interview do some practice before. Prepare answers and read up about the research area.
  - Why do you want to do this topic?
  - Why do you want to study at this university/ research department?
- Speak clearly and slowly, and communicate well, don't talk too long or be verbose.
- If you don't know something, say you don't know, but also try to work it out and give some answers that might help. They want to see that you can figure things out. Take your time and don't rush, take time to think
- Prepare one short question to the interviewer for the end. Its nice if you ask about their research or something specific that you find interesting. Keep it short.

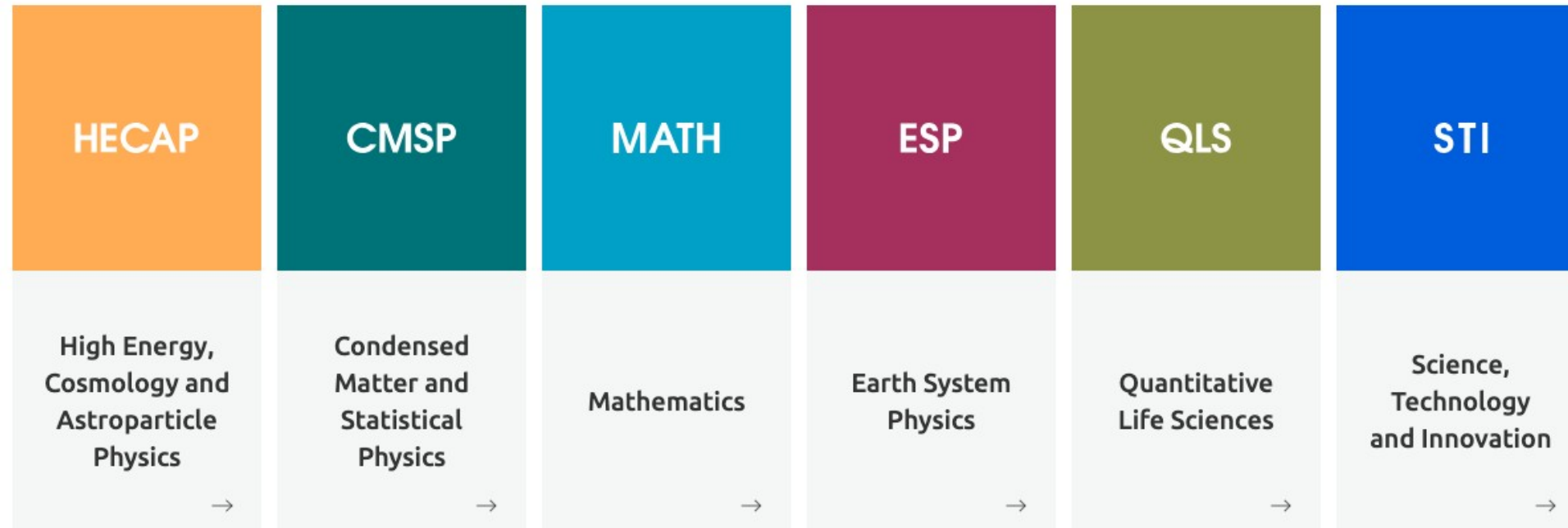
# Summer Schools

- [CERN Summer School](#): For advanced BSc and Master students in physics, computing or engineering, to spend the summer at CERN doing courses and research project. **DEADLINE: January 2025**. Funding positions available for non-member state countries.
- Also Open Lab and technical student school
- [DESY Summer School](#): For advanced BSc and Master students in physics or related natural science degree, students spend the summer at DESY looking at synchrotron radiation experiments or high energy physics experiments. Includes lectures and research project. **DEADLINE: January 2025**. *Few* funding positions available for non-member state countries.



# The Abdus Salam International Centre for Theoretical Physics

ICTP supports research groups in several areas of **physical sciences and mathematics**. From its early focus on theoretical high energy physics, the Centre's research areas have evolved in response to the needs of physicists and mathematicians from disadvantaged countries, and now include the following areas:



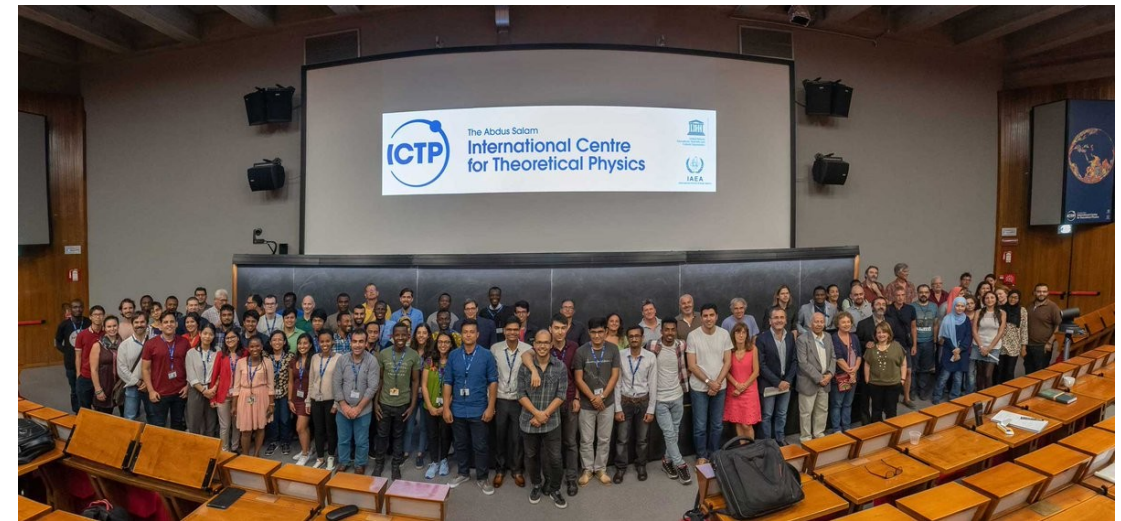
# The Abdus Salam International Centre for Theoretical Physics

The ICTP's one-year [Postgraduate Diploma Programme](https://diploma.ictp.it/) helps students from disadvantaged countries gain the knowledge and study skills they need to pursue PhD degrees anywhere in the world. [diploma.ictp.it/](https://diploma.ictp.it/)

Open to young, qualified graduates with a degree equivalent to a BSc or MSc in physics, mathematics, or a related field, and fluency in English. The Programme comprises two semesters of classes, followed by a research project and dissertation. Students can apply to study in one of five subject areas:

- **High Energy, Cosmology and Astroparticle Physics**
- **Condensed Matter Physics**
- **Earth System Physics**
- **Mathematics**
- **Quantitative Life Sciences**

ICTP awards 10 scholarships in each field to successful candidates to cover travel and living expenses during their stay at the Centre. The selection of the candidates is based on their university performance as well as on academic recommendations.






# The Abdus Salam International Centre for Theoretical Physics

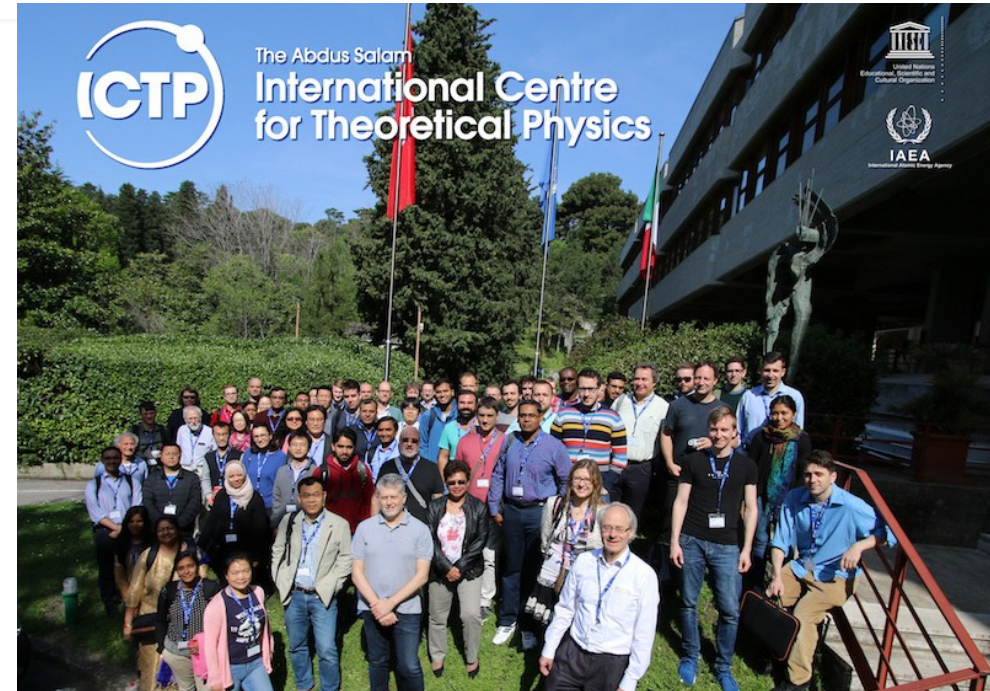
ICTP organises many **scientific activities**. Often there is no registration fee and if scientists are eligible and from a developing country ICTP supports a number of **grants to support the attendance** of the selected participant. [www.ictp.it/home/scientific-calendar](http://www.ictp.it/home/scientific-calendar)

November 2023

November

20

<p>Duration</p> <p><b>20 - 24</b> Nov Nov</p> <p>Apply before</p> <p>03 Sep 2023</p>	<p>Workshop</p> 	<p>Workshop on Communication in Extreme Environments for Science and Sustainable Development   (smr 3893)</p>	<p>ICTP Budnich Lecture Hall (LB)</p> <p>STI SCIENCE, TECHNOLOGY AND INNOVATION</p> <p>SMR3893</p>
<p>Duration</p> <p><b>20 - 24</b> Nov Nov</p> <p>Application Closed</p>	<p>Workshop</p> 	<p>Joint ICTP-IAEA Workshop on Artificial Intelligence in Ionizing Radiation for Medical Physicists   (smr 3895)</p>	<p>ICTP Kastler Lecture Hall (AGH)</p> <p>SMR3895</p>
<p>Duration</p> <p><b>20 - 01</b> Nov Dec</p> <p>Application Closed</p>	<p>School</p> 	<p>Joint ICTP-IAEA School on Systems-on-Chip Based on FPGA for Scientific Instrumentation and Reconfigurable Computing   (smr 3891)</p>	<p>ICTP Giambiagi Lecture Hall (AGH)</p> <p>STI SCIENCE, TECHNOLOGY AND INNOVATION</p> <p>SMR3891</p>





# The World Academy of Sciences (TWAS)

TWAS is the voice for science in the South

[Twas.org](http://Twas.org)



## TWAS Research Grants Programme: Maintenance

Under this scheme, grants are awarded to past grant recipients of the TWAS Research Grant programme who procured equipment through the grant in one of the S&T-lagging countries identified by TWAS.

No call for this programme will open in 2023

Partner Organizations  
 Swedish International Development Cooperation Agency

Country where tenable  
 Science- and technology-lagging countries

Minimum degree held  
 PHD

Field  
 Biology, Chemistry, Mathematics, Physics  
 Age limit  
 None

The **TWAS Research Grants Programme for Maintenance grants** was established in response to the needs of researchers in developing countries, particularly those attached to institutions that lack appropriate research facilities. Under this scheme, grants can be awarded for maintenance and repair(s) to individual young researchers, or to research units in the [science-and-technology-lagging countries](#) (S&TLC) identified by TWAS, to enable them to repair and fix any unutilised laboratory equipment they need to enhance their productivity.

The information on this page refers to applications submitted for maintenance grant.

The **TWAS Maintenance Grant Programme** aims to:

- Reduce unused equipment in laboratories;
- Lengthen the shelf life of pieces of equipment in laboratories;

The TWAS Maintenance Grant Programme is generously supported by the Swedish International Development Cooperation Agency (Sida).

### Programme Details

- TWAS Maintenance Grants are awarded to support repair and servicing of existing lab equipment already procured through a past TWAS Research grant (Individual or Group) in the S&T-lagging countries (S&TLC) identified by TWAS.
- Maintenance Grants to individual scientists amount to a maximum of USD 3,000.
- The grants, which are normally provided for a period of 12 months. Purchase of new equipment cannot be supported through this grant.

### Eligibility

- Individual applicants must be nationals of developing countries.
- The applicants **must** be previous recipients of TWAS Research Grants (either Individual or Group).
- The equipment requiring servicing or maintenance must have been purchased through the previous TWAS Research Grant award.
- Individual scientists who submit a satisfactory final report on a previous grant may apply for this grant.

### Agreement



## Research and Project Grants

TWAS research grants are awarded to both individual scientists and research groups

[SEE ALL](#)



## Awards and Medals

TWAS has long recognized that awards provide an incentive for scientists to do their best work, while winning them global acknowledgment. Honours awarded by TWAS and its partners are among the most prestigious given for research in the developing world. They range from the TWAS-Awards, honoring established scientists in the South, to awards given to early-career scientists already making impressive contributions to their field.

[SEE ALL](#)



## Fellowships

With the world's largest South-South PhD and postdoctoral research fellowship programme, TWAS helps early-career researchers to gain education and experience at top science institutions. TWAS currently offers about 160 PhD fellowships, in conjunction with eight partners in six countries, and about 100 postdoctoral fellowships in conjunction with nine partners in five countries.

[SEE ALL](#)



## Science Diplomacy and Other Training

TWAS offers financial assistance to the organizers of international and regional scientific conferences, workshops, symposia and special meetings in the developing world.

[SEE ALL](#)



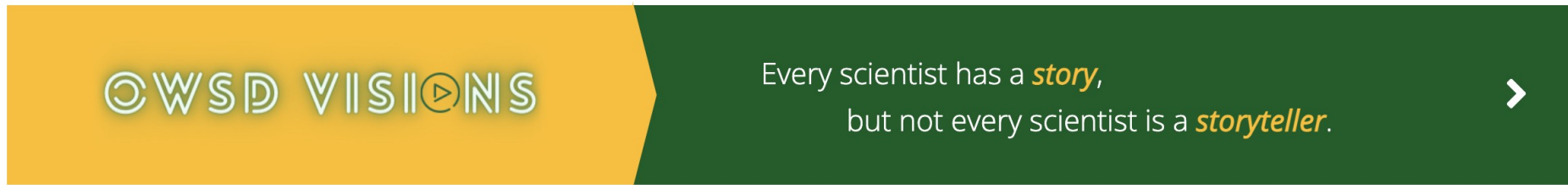
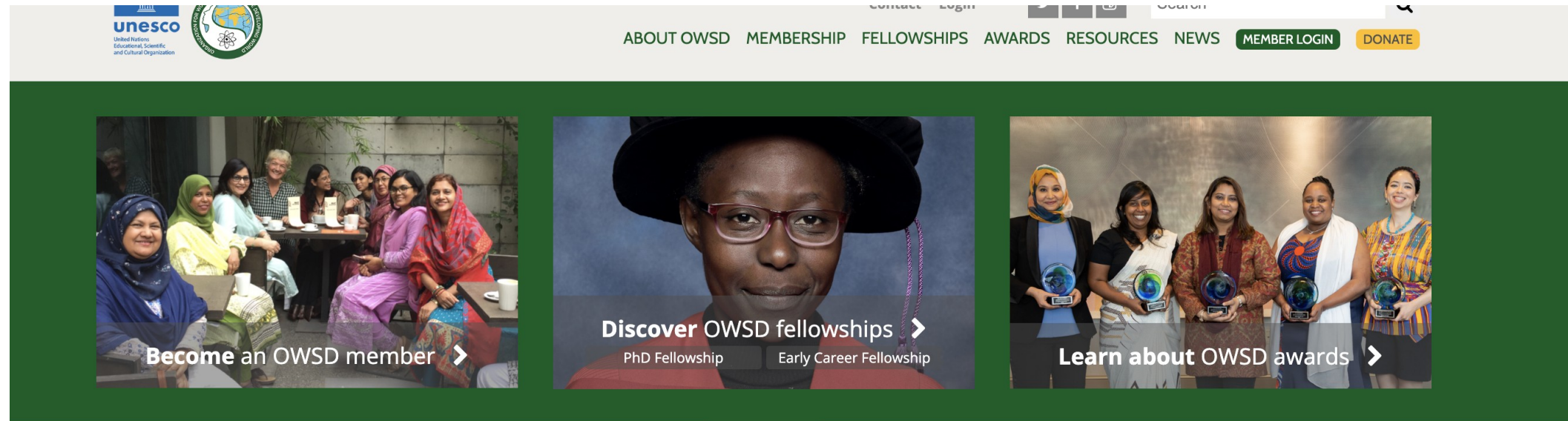
## Visiting Scientists

Experienced scientists can be invited to developing nations as visiting professors to help build expertise in a given field. Or they can travel as visiting researchers to hundreds of scientific institutions worldwide to collaborate on new projects and build international partnerships.

[SEE ALL](#)



# The Organization for Women in Science for the Developing World (OWSD) (owsd.net)



- PhD opportunities : <https://owsd.net/career-development/phd-fellowship>
- Early Career funding