



United Nations
Educational, Scientific and
Cultural Organization



ICTP - East African Institute
for Fundamental Research
under the auspices of UNESCO



PhD Physics Admission at EAI FR: 2019 First call

Background

At the ICTP East African Institute for Fundamental Research (EAI FR), the focus is on carrying out research and making discoveries for African development and advancement, while investing equal energy into training others to do the same through our MSc and PhD programmes as well as the many short courses and workshops that we hold throughout the year. Our resident scientific staff members are dynamic scientists who are very active in the international scene in their respective fields. Senior scientists from ICTP-Trieste and other parts of the world are also involved in the teaching and training of students in all our programmes and at all levels. EAI FR is a partner institute of the International Center for Theoretical Physics (ICTP) in Trieste, Italy. It has been set up by the Government of Rwanda through the Rwandan Ministry of Education (MINEDUC) as a Category 2 UNESCO Institute. EAI FR is hosted by the University of Rwanda (UR).

PhD programme

The PhD programme at EAI FR is in physics, with research specialization in one of the following broad areas:

- 1) High Energy Physics
- 2) Condensed Matter Physics
- 3) Solid Earth Geophysics

Admitted students will be taught and supervised by EAI FR resident scientists and co-supervised by scientists at ICTP Trieste and possibly others around the world based upon mutual interests and the research proposal of the students. Our High Energy Physics scientists work in cosmology and particle physics phenomenology, Condensed Matter Physics is mainly in electronic structure theory while Geophysics will be centered around seismology, space geodesy and tectonics.

Female candidates are particularly encouraged to apply; EAI FR is a collaborating Institute with the Organization for Women in Science in Developing countries (OWSD) and female candidates can apply for the OWSD PhD fellowships. See: <https://owsd.net/ictp-east-african-institute-fundamental-research> and <https://owsd.net/career-development/phd-fellowship>

Duration of the PhD Programme

Maximum time duration of four years.

ICTP-EAI FR, KIST2 Building, Nyarugenge Campus, University of Rwanda, Kigali, Rwanda

www.eaifr.org * info@eaifr.org

Research And Discoveries for African Development and Advancement

Mode of attendance

The PhD programme is completed through in-depth research that breaks new ground in the field and contributes to overall scientific knowledge. Research publications are expected from students as well as a final dissertation thesis before graduation.

Funding

A limited number of scholarships and/or assistantships are available to top students admitted into the programme.

Scholarships may also be obtained through funding agencies.

Rwandan students are encouraged to apply to the Rwandan Higher Education Council (HEC) for funding: hec.gov.rw

The University fee structure is downloadable from the University of Rwanda's website:

<http://ur.ac.rw/sites/default/files/Postgraduate%20fees%20amended%20by%20SMC%20on%2016th%20February%202017.pdf#overlay-context=node/17%3Fq%3Dnode/17>

Key dates

- Application deadline: 30 June, 2019 (Note: Female candidates applying for the OWSD fellowships need to send in their PhD applications before the 24th of May, 2019).
- Deadline for notification of selection: 31 August 2019
- Registration and commencement of research: 1 October 2019

Minimum qualifications

- Bachelor's degree with honors in physics, mathematics, or a related field, with distinction (cumulative grade point average of at least 70%).
- Master's degree in physics, mathematics, or a related field.
- It is advisable for applicants to contact the EAI FR scientific staff in order to find areas of common interest for PhD research. The research interests of our staff can be found here: <https://eaifr.org>
- Selection of candidates will be based on their university record and on academic recommendations.

ICTP-EAIFR, KIST2 Building, Nyarugenge Campus, University of Rwanda, Kigali, Rwanda

www.eaifr.org * info@eaifr.org

Research And Discoveries for African Development and Advancement

How to apply

Applications can be made online at: <https://e-applications.ictp.it/applicant/login/9009>

The online application requires applicants to upload the following documents:

- Copies of academic transcripts and certificates (in English). Note that successful applicants will need to supply notarized copies of these documents upon admission.
- Documents that show that the students can follow instructions in the English language.
- Contact details of two referees who can make comprehensive comments about the applicant's abilities, past studies, and work.
- A proposal of the intended PhD research.

ICTP-EAIFR, KIST2 Building, Nyarugenge Campus, University of Rwanda, Kigali, Rwanda

www.eaifr.org * info@eaifr.org

Research And Discoveries for African Development and Advancement