
ANNOUNCEMENTS

ICTP: A MEDICAL PHYSICS TRAINING OPPORTUNITY FOR YOUNG PHYSICISTS FROM DEVELOPING COUNTRIES

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Abstract— The Abdus Salam International Centre for Theoretical Physics (ICTP, Trieste, Italy) has announced a ICTP and Trieste University Master in Medical Physics, a two-years training programme in Medical Physics addressed to young physicists and mainly from developing countries. The initiative will be supported by IOMP, IAEA and TWAS (Academy of Sciences for the Developing World).

Keywords— Medical Physics Education, Master

I. INTRODUCTION

The Abdus Salam International Centre for Theoretical Physics (ICTP, Trieste, Italy) has announced a ICTP and Trieste University Master in Medical Physics (MPMICTP), a two-years training programme in Medical Physics, co-sponsored by the Academy of Sciences for the Developing World (TWAS). The first course will be held during the period 1 January 2014 – 31 December 2015 and will lead to the Master Degree in Medical Physics. The Master Programme is designated to provide young promising graduates in physics or equivalent, mainly from developing countries, with a post-graduated theoretical and clinical training suitable to be recognised as Clinical Medical Physicist in their countries.

The ICTP, a UNESCO educational institution with training initiatives in the area of medical physics like the well known bi-annual College in Medical Physics and several ICTP/IAEA training courses, has developed the Master programme according to the recommendations of IOMP and IAEA for the education and the clinical training. IOMP and IAEA are seeing this initiative as an answer to the growing demand of Medical Physicists in developing Countries and are assuring important scientific and financial support.

The first year will be spent in Trieste, Italy, while the second year dedicated to the clinical professional training

will be spent in a Medical Physics Department of a hospital of the training network.

The Master Programme in Medical Physics consists of basic and advanced courses and practical and clinical training given by experts in these fields. In the first year 330 hours of lectures and 230 hours of guided exercises are devoted to: Anatomy and Physiology as applied to Medical Physics, Radiobiology, Radiation Physics, Radiation Dosimetry, Physics of Nuclear Medicine, Medical Physics Imaging fundamentals, Physics of diagnostic and Interventional Radiology (X rays, US, MRI, Hybrid systems), Physics of Radiation Oncology, Radiation Protection, Information Technology in Medical Physics. There will be an examination at the end of each course.

The second year will be spent in a medical physics department of the hospitals' network for a full time clinical training in radiotherapy, diagnostic and interventional radiology, nuclear medicine and radiation protection. The first year practical and the clinical training will be informed by the IAEA recommendations (TCS37, TCS47 and TCS50)

After all courses, the practical and clinical training participants are required to work on a dissertation to be submitted and defended during the last month of the programme.

The Master will be awarded by the Trieste University only to those candidates who successfully complete all examinations, the clinical training and other requirements as may be decided upon by the Master Committee. Participants may also be required to take part in the ongoing activities of the ICTP in their related fields.

The Master Programme is open to young (generally below 30 years of age) qualified graduated from all countries that are members of the United Nations, UNESCO or IAEA. The maximum number of students admitted is 15 and the minimum qualification for applicants is a degree

equivalent to an M.Sc. in Physics or related fields. A limited number of full scholarships will be awarded to successful candidates from developing countries. A limited number of qualified candidates may attend the course at their own cost. Information and application form can be found at the master course website: www.ictp.it/programmes/mmp.aspx

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