MASTER'S OF ADVANCED STUDIES IN MEDICAL PHYSICS

2015 – 2016

Trieste University Hospital

The Abdus Salam International Centre for Theoretical Physics (ICTP) and the University of Trieste, Italy announce the second Master's Programme in Medical Physics (MMP), a two-year training programme in the field of Medical Physics, co-sponsored by The World Academy of Science (TWAS) with the patronage of the Trieste University Hospital.

The programme will be held from 1 January 2015 until 31 December 2016 and will lead to a Master's Degree in Medical Physics. The first year will be spent in Trieste, Italy, while the second year will be dedicated to clinical professional training in a medical physics department of a hospital in the programme's training network.

The Master's Programme is designed to provide young promising graduates in physics or equivalent (mainly from developing countries that are members of the United Nations, UNESCO or IAEA) with post-graduate theoretical and clinical training suitable to be recognised as Clinical Medical Physicists in their countries.

The minimum qualification for applicants is a degree equivalent to a M.Sc. in Physics or related fields. *Candidates who have received their degree outside Italy must obtain a "Dichiarazione di Valore" from the Embassy in their country, testifying that their curriculum studiorum is equivalent to the Italian "Laurea specialistica" (5 years of University studies).* The selection of candidates will be based on their university performance, research activity and professional experience in the field. Adequate proficiency in the English language is required. The maximum number of students admitted is 18.

A limited number of full scholarships will be awarded to successful candidates from developing countries; ICTP will also cover travel costs and course fees for a limited number of successful candidates from developing countries who are not awarded the full scholarship.

FIRST YEAR PROGRAMME:

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 - Medical Statistics

In total 330 hours of lessons and 230 hours of guided exercises

SECOND YEAR PROGRAMME:

Clinical training in radiotherapy, diagnostic and interventional radiology, nuclear medicine and radiation protection in a hospital of the clinical network (hospitals in Northern Italy and other nearby countries) (1200 hours) - Thesis work (125 hours)

To apply online: http://onlineapps.ictp.it/ENTER/APPLICANT/2662.mhtml

Application deadline: 31 August 2014

For more information please visit the programme website: http://www.ictp.it/programmes/mmp.aspx