



Sant'Anna
Scuola Universitaria Superiore Pisa



CALL FOR APPLICATIONS

II LEVEL MASTER

“INNOVATION IN CARDIAC SURGERY: ADVANCES IN MINIMALLY INVASIVE THERAPEUTICS”

Academic Year 2017/2018

Article 1 – General Information

The Institute of Life Sciences of Sant'Anna School of Advanced Studies, in Pisa, Italy, according to the article 3 of the School's Statute, and in partnership with the Fondazione Toscana G. Monasterio - Regione Toscana-CNR, will be offering the 4th edition of the II level Master course “Innovation in Cardiac Surgery: Advances in Minimally Invasive Therapeutics”, within the Academic Years 2017-2018.

The Course's venue will be the main campus of Sant'Anna School; practical activities will be held in the headquarters of Fondazione G. Monasterio in Massa and Pisa, and in other sites.

The Master will begin in January 2018 and end in June 2019.

Language of instruction will be English.

Article 2 – University Credits (CFU)

The Master provides students with maximum 70 University Credits (ECTS).

To obtain the Master Degree the attendance of courses is mandatory, as well as to pass the intermediate and final tests of proficiency according to what is stated by the Internal Regulation of the Master.

The acquisition of the Master Degree occurs with 65 CFU at least, and is subject to the respect of the minimum attendance requirements, i.e. 90% of the scheduled teaching activities including practical internships as for article 4.

Article 3 – Goals and Job Opportunities

The main goal of the Master consists in developing scientific, technical and cultural background for the management of patients with heart disease, candidate to minimally invasive cardiac surgery, through an interdisciplinary approach.

The Master will provide surgeons with key elements to assure patients the best, less invasive, and up-to-date treatment.

In particular, the Master aims:

- 1) to provide the diagnostic basis and criteria for selection of patients for any kind of minimally invasive and/or hybrid approaches;
- 2) to give a specific insight into old and new imaging techniques, their interpretative basis and their use in the diagnostic and therapeutic process;
- 3) to illustrate the theory and the practice of the different minimally invasive and hybrid techniques and to demonstrate the need of a coordinated cardiac team work (examine the -pre, -intra, -post medical aspects relied on the role of the cardiologist, the radiologist, the anesthesiologist);
- 4) to show, with the support of biomedical manufacturers, the features of the devices currently employed in minimally invasive cardiac surgery;
- 5) to give a basis of understanding the health economics process with focus on socio-economic impact of innovative medical approaches.

The Master increases knowledge of mini-invasive cardiac surgery and promotes employment opportunities in the lead centres and institutions in this field.

Article 4 - Teaching Methods and Course Schedule

The Master Course has a duration of 18 months amounting to a total of 700 hours, divided as follows:

- no. 120 hours of lectures and seminars in classroom for 3 weeks (usually every 6 months);
- no. 240 hours of e-learning;
- no. 40 hours of workshop;
- no. 300 hours of residential surgical training programs in the Fondazione G. Monasterio, Regione Toscana-CNR, Massa and in other qualified international Institutions selected by the Master's Direction.

The Master Programme is structured in 4 main areas:

- Cardiology and Anesthesiology, to acquire theoretical and practical knowledge aimed at pre-operative evaluation of patient candidate to cardiac surgery, to patient management, to risk evaluation, to evaluation of pathologies requiring non -conventional approaches, to cardioanesthesia;
- Cardiac Surgery, to acquire the surgery advanced knowledge and technical expertise;
- Imaging, to acquire the interpretative basis of main imaging techniques in order to optimize the pre-intervention diagnosis and post-operative management;
- Health management, concerning the analysis of the economic, social and cost-benefits aspect of the new techniques;

For this edition the surgical sites for the residential surgical training are: Fondazione G. Monasterio, Regione Toscana-CNR Massa, Italy, Cardiac surgery Division, Clinica Sant'Ambrogio, Milan, Italy, Klinikum Nürnberg Süd, Nurnberg, Germany; Bristol Heart Institute, Bristol, UK; other Centers will be communicated during the master.

Practical internships have a duration of at least 300 hours; it is mandatory to spend 80 hours in the Cardiothoracic Department of the Fondazione G. Monasterio in Massa Italy.

Workshops can be attended abroad.

Rights and duties of the students of the Master, as well as the use of School facilities, are regulated by "General Rules and Regulations for University Master" of the Sant'Anna School and by the Rules and Regulations of the Master "Innovation in Cardiac Surgery: Advances in Minimally Invasive Therapeutics".

Article 5 - Master Thesis

At the end of the Master Course, the students shall produce a written dissertation (Master Thesis) about the project work carried out during the internships, which will be discussed and assessed by an Evaluation Committee nominated by the Rector with a Decree.

The discussion of the Thesis must be held within the first session of the Academic Year following the year in which the Master will end.

The Project Work must be registered for publication in the archive of the Thesis online of Sant'Anna School, within the timing indicated in the Internal Regulation of the Master.

Article 6 - Admission Requirements

Applications for the Master Course can be made by European and Non-European citizens, who possess a University Degree in Medicine (or an equivalent qualification) and a Specialization in Cardiac Surgery (or an equivalent qualification). Other University Degree qualifications could be accepted under the Evaluation Committee assessment.

Students who are enrolled in University programs and expect to gain the Specialization Degree in Cardiac Surgery within the beginning of the Master are also eligible.

The candidates shall have a good knowledge of English language (at least B2).

Article 7 - Application Procedure

Applicants shall submit their application on-line at <http://www.santannapisa.it/mastercardiac/application>, within October 31st, 2017.

Following, the documents to enclose to the application:

- Self-declaration of the Degree in Medicine and of the Specialization including the date and the final vote;
- Curriculum vitae;

- others attendance certificate;
- at least two letters of referees;
- copy of a valid identity card.

Those who expect to gain specialization within the beginning of the Master are required to present a self-declaration with a list of sustained exams, and the date of the Specialization. If admitted, they must present a self-declaration of the obtained Specialization.

Incomplete or delayed applications, for any reason, will not be accepted.

False documents or false declarations will be punished according to the Penal Code and Special Laws in matter, articles 75-76 D.PR. 445/2000.

Sant'Anna School can, at any time, even after the beginning of the Master, verify declarations and documents. In case they are false, School can exclude candidates with a Rector's Decree.

Art. 8 – Selection process

The number of available positions is 15 with a minimum of 5 participants.

The selection process will be carried out by the Evaluation Committee nominated by the Rector through the evaluation of the titles, the curriculum, and the motivation. If required, a phone or skype interview will complete the evaluation process.

The Scientific Committee will select the applicants by awarding up to 100 points to their qualifications according to the following criteria:

- Academic curriculum (average of marks received at exams, mark of the MD graduation exam, consistency of the curriculum and dissertation with the contents of the Master Course): up to 40 points;
- Relevant professional experience in cardiac surgery, research activity, and publications: up to 40 points;
- Motivation and two reference letters: up to 20 points.

At the end of the selection, the 15 best-ranked applicants will attend the Master; in case of withdrawal, those who have been awarded an overall score of at least 70/100 points will be eligible to attend the Master Course.

In presence of an *ex equo*, the younger candidate will be chosen.

Once the selection is ended, Sant'Anna School, with a Rector's Decree, will approve the procedure and the rank, after the verification of candidates' requirements and titles. Final rank will be published exclusively online on the School's website, in the section dedicated to the master.

Only the eligible applicants will receive an e-mail, requiring for confirmation to participate to the Master Course. Any communication to the applicants regarding this call shall be transmitted via e-mail.

The 15 best-ranked applicants who confirm their participation to the course will be admitted to attend the Master Course. In case of student withdrawal, the next eligible applicant who has confirmed the participation to the course will be admitted to the Master Course.

In case of a low number of applications, Master's Direction can decide not to activate the Master.

Art. 9 - Acceptance procedure

Admitted applicants must confirm their participation within the time fixed in the admission communication, sending to Scuola Superiore Sant'Anna – U.O. Alta Formazione the following documents:

- declaration of the intention to participate to the Master Course;
- copy of the receipt of payment of half of the tuition fee of € 2.500,00.

All admitted participants who are non EU citizen or have obtained abroad their Degree must also provide a copy of the Medicine Degree and of the Specialization in Cardiac Surgery (or an equivalent qualification), validated by the Italian authority in the country.

All admitted participants who are non EU citizen must also present a certificate of equivalence of qualification.

In order to complete their participation, at the beginning of the Master students will present to the Secretariat a stamp of € 16,00 to apply on the application form.

The payment of the second half of the tuition fee of € 2.500,00 must be done according to the instruction in the admission communication.

Bank transfers to:

Scuola Superiore Sant'Anna

UNICREDIT S.p.A., Filiale di Pisa,

IBAN IT 32 0 02008 14006 000401272765 (indicating: Master Cardiac – name and surname of the student).

Article 10 – Master tuition fee

Master tuition fee has been fixed to € 5.000,00 and warrants participation to all teaching activities as well as teaching material, accommodation and lunch expenses during lectures in Pisa, access to the e-learning platform, lunches during the lecture weeks at the Sant'Anna School, tutoring and assistance for preparation of the project work, tax stamp of € 16,00 for the Degree.

Travel and accommodation expenses during the period of internship are on student's charge. In presence of public or private funds, Master Direction can provide these costs, if documented.

Travel and accommodation expenses during the workshop are on student's charge.

In case of student withdrawal before the beginning of the Master, the eligible candidates will not be refund of the first half of the tuition fee.

If a student will interrupt the Master Course, he/she will not be refunded and the entire tuition fee amount is due.

In accordance with Italian Law, art. 9 comma 2 del DLgs 68/2012, presenting an adequate certification, students with a disability equal or superior to 66% are exonerated from the tuition fee; students with a disability inferior to 66% have right to a reduction of 1.5 % every percentage point (art. 3, comma 1, della L. 104/1992).

Article 11 – Degree Awarded

At the end of the Master Course, students who have attended the teaching program and have passed all the required examinations, successfully discussed the Project Work, and paid the tuition fee will receive from Sant'Anna School of Advanced Studies a University Master – II level Degree, in accordance with article 3 of D.M. 270/2004.

Art. 12 - Personal Data and measures of prevention of corruption

In accordance with Italian Law n. 241/1990 art. 5, the Responsible for the Administrative Proceeding is the Responsible of U.O. Alta Formazione – Scuola Superiore Sant'Anna – via Maffi 27, 56127 Pisa – (phone +39 050 882645; e-mail altaformazione@santannapisa.it).

According to the Italian Legislative Decree n. 196/2003 (Personal data Protection), please note that the personal details collected by Sant'Anna School, will be used solely for the purposes pertaining to the management of this Master Programme, in accordance with the applicable regulations. The Scuola shall be responsible for such data processing. Anyone concerned can assert the rights under art. 7 of the Italian Legislative Decree n. 196/2003 with the Sant'Anna School (e-mail urp@santannapisa.it).

The Sant'Anna School operates in compliance with Law n.190/2012 concerning the prevention of corruption by implementing measures identified in the "Three-year plan for the prevention of corruption" published in the section "Transparent Administration" of the School website at: www.santannapisa.it.