



CALL FOR APPLICATIONS

Article 1 - General Information

The University of Rome “Tor Vergata”, Italy, according to the art. 9 del d.m. 270/2004, will be offering the 2nd-level Master course “Big Data in Business: discovering & leveraging for Value Creation”, during the Academic Year 2015-2016 from January the 11th 2016, to December 2016. The Master implies activities for a total of 70 university credits (ECTS), 54 acquired through the front lectures (438 hours), 15 acquired through the stage (375 hours) and 1 acquired through written final work (Master Thesis). Language of instruction is English.

The Master is offered by Department of Economics and Finance, Department of Electronic Engineering, Department of Enterprise Engineering and Department of Physics. The Master’s objective is to train young graduate talented students to provided the necessary computer science, statistical and business skills that are necessary to develop and manage Big Data.

The Master is limited to a maximum of 25 positions and a minimum of 15 positions. Two positions shall be reserved for non-EU applicants.

Art. 2 - University Credits

The Master requires the attendance of courses that confer university credits (ECTS), according to what is stated by the plan of study of the Master. The acquisition of credits occurs after the proficiency verification of each exam and it is subject to the respect of the minimum attendance requirements. In order to obtain the Master degree, it is necessary to acquire **70 University Credits**.

Art. 3 – Goals

The main objective of the Master consists in developing the scientific, managerial, technical and cultural background as well as the competence of a high-level professional profile in the area of Big Data. The graduate will acquire the ability to manage advanced technologies in Software Engineering, Statistics techniques, Telecommunication Engineering, for the design and management of Big Data.

Art. 4 - Teaching Methods and Program Phases

The Master has a duration of 12 months and is organized over two periods with distinct training: a theoretical and methodological one (7 months); and internship, (5 months).

The aim of the first period is the transmission of knowledge through traditional lectures, laboratory training and seminars. Class attendance will be compulsory. Classes will be held from Monday to Friday for 30 hours a week on average.

The Master Program is structured in 4 main areas: Business, Informatics, Statistics, and Telecommunications. Detailed program is available at <http://bigdata.uniroma2.it>. Five-month internships are offered to the students by Telecom Italia in Italy and Ericsson.



Art. 5 - Master Thesis

At the end of the Master Program, the students shall produce a written final work (Master thesis) about the project work carried out during the internship semester, which will be discussed and assessed by the Faculty.

Art. 6 - Admission Requirements

Applicants for the Master Program must be European (EU28¹) citizens, with the exception of two applicants which will be chosen among non-European Union citizens². In addition, applicants will have a Master of Science University degree (Italian “Laurea Magistrale” or “Laurea vecchio ordinamento”). Other University degree qualifications could be accepted under the Faculty assessment in charge of evaluating the relevance of the degree and profile of the candidate for the objectives of the Master. The candidates must be proficient in English. The knowledge of English will be assessed through a language interview.

Art. 7 - Application Procedure

Applicants must submit their application on-line from the web-site <http://delphi.uniroma2.it>, (1) Student section (2) Post graduate courses (3) Specialization courses-Master (4) Enrollment to the Admission Test for the Master/Specialization Courses (5) Start application procedure (6) Faculty of Economics (7) master in Big Data, course code POT. Please provide the AUTH code and the following documents: (a) Curriculum vitae; (b) Official transcripts (Transcript of the undergraduate record, including the grades obtained in each exam and the final grade) (c) Two letters of recommendation (written by people who can evaluate the applicant’s study and research abilities, such as previous lecturers and supervisors) must be sent directly to bigdata@uniroma2.it **no later than December 3th 2015**. Any queries regarding the application can be forwarded to bigdata@uniroma2.it.

Art. 8 - Selection Process

The selection process will be conducted by the Faculty, by Telecom Italia and by Ericsson as follows:
I step: Evaluation of academic and other qualifications (managed by the University of Rome Tor Vergata only)
II step: Technical and Motivational Interviews (managed by the University of Rome Tor Vergata, Telecom Italia and Ericsson).

¹ EU28 countries: Austria, Belgium, Bulgaria, Cyprus, Croatia, Denmark, Estonia, Finland, France, Germany, Greece, Ireland, Italy, Latvia, Lithuania, Luxemburg, Malta, Netherlands, Poland, Portugal, United Kingdom, Czech Republic, Romania, Slovakia, Slovenia, Spain, Sweden, Hungary.

² The non-European Union countries of interest are: (a) Countries within geographical Europe boundaries: San Marino, Vatican City, Switzerland, Norway, Albania, Macedonia, Montenegro, Serbia, Turkey, Bosnia Herzegovina, Kosovo, Cyprus, Bulgaria, Moldavia, Ukraine, Belarus (b) Countries outside geographical Europe boundaries: USA, Canada, Australia, Russian Federation, Japan, South Korea, China, India, United Arab Emirates, Argentina, Brazil, Chile, Israel, Mexico, South Africa, Singapore, Tunisia, Venezuela.



Evaluation of academic qualifications: The Faculty will select the applicants by awarding up to 85 points to the qualifications (curriculum and other qualifications) according to the following criteria:

- Academic curriculum (average of marks received at exams, mark of the graduation exam if applicable, consistency of the curriculum and dissertation with the contents of the Master Program): up to 70 points;
- Language skills: up to 5 points;
- Motivation and two reference letters: up to 10 points.
- The candidates shall have a good knowledge of English language. Certificates as TOEFL, IELTS, Cambridge, GRE or other certificates results are a plus and will be taken into account for admission.

An overall score of minimum 60 points at the Evaluation of the academic qualifications is required to be admitted to the Technical and Motivational interviews. The outcome of the assessment will be published no later than **December 9th** along with the interviews agenda.

Technical and Motivational Interviews: A technical and motivational interview will be conducted by the Faculty of University of Rome Tor Vergata while a second pure motivational interview will be conducted by Telecom Italia and Ericsson. The two Committees aim at verifying, respectively, the knowledge of the technical background and the attitudinal and motivational skills of the candidates. Both interviews will be conducted in English. The candidates are required to take an in-person interview. The candidates temporarily abroad will be asked to take a skype interview.

An overall score of maximum 50 points will be awarded to the outcome of the interview managed by University of Rome Tor Vergata and its score will be added to that obtained in the evaluation of academic qualifications. The second interview, conducted by Telecom Italia and Ericsson, regarding only motivational aspects will be based on at least three profiling lines (i.e. motivational statements) and for each of them a maximum of 5 points will be awarded. At the end of the selection procedure, the students who have been awarded an overall score (Evaluation of Academic Qualifications and Technical and Motivational Interviews) of at least 100 out of 150 points and who have obtained a minimum of 3 points out of 5 for each statement of the Motivational Interview, will be considered eligible to attend the Master Program.

No later than December 15th, the list of the eligible applicants admitted to the Master Program along with a reserve list will be published in the Master's website. Any communication to the applicants regarding this call will be transmitted through e-mail. The admitted applicants will be required by mail to confirm their participation in the Master Program. In case of withdrawal, the next eligible applicant in the reserve list who has confirmed the participation to the course will be admitted to the Master Program. According to the Commission resolution the class will be composed by a minimum of 15 and a maximum of 25 students following the final ranking of the eligible applicants.