Call for admission to the Professional Master in Autonomous Driving and Enabling Technologies

First Edition

Academic Year 2018/2019

Application deadline on Monday, April 1st, 2019
General Information

The University of Trento, in collaboration with the University of Modena and Reggio Emilia and the Bruno Kessler Foundation, opens a selection for the admission to the Professional Master in Autonomous Driving and Enabling Technologies (II level University Masters), first edition, academic year 2018/2019. The Professional Master is activated by the Departments of Industrial Engineering and Information engineering and Computer Science.

In order to guarantee the most adequate and effective carrying out of the activities, the number of participants is limited to a maximum of 20 students. If the minimum number of 10 students is not reached, the Master will not be activated. The Board of Directors may justify a modification of these numbers.

Duration of the Professional Master: 12 months
Start of activities: May 2019
End of activities: May 2020
Minimum attendance: 75% of the educational activities
Website: [https://www.unitn.it/master-adbot](https://www.unitn.it/master-adbot)

Educational goals and organization

The Professional Master in Autonomous Driving and Enabling Technologies aims to train professionals to achieve highly qualified skills in the design and development of intelligent systems for connected and autonomous vehicles. The Professional Master’s course gives a general overview of the most modern and advanced digital technologies applied to the automotive sector, providing expertise of increasing impact in various industrial sectors and of great importance in applied research. The training activities will have a strong multi- and interdisciplinary connotation, ranging from mechanics, information technology, electronics, automation and artificial intelligence. This approach will allow participants to develop the knowledge needed to successfully tackle the problems posed by the latest technological developments characteristic of the new industrial revolution (the so-called Industry 4.0).

The employment opportunities for the holders of the Professional Master’s degree are the manufacturing companies operating in the automotive sector and all the companies which adopt “Industry 4.0” technologies. In these working environments, it is expected that holders of the Professional Master’s degree will perform activities such as, for example, innovation of products and production systems, intelligent mechanics, advanced design, planning and programming, management of complex systems.

The educational activities carried out in the Professional Master correspond to 60 CFU (University Credits):

<table>
<thead>
<tr>
<th>Activity</th>
<th>Duration in hours</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Lectures</td>
<td>240</td>
<td>30</td>
</tr>
<tr>
<td>Individual study related to lectures</td>
<td>510</td>
<td></td>
</tr>
<tr>
<td>Project work</td>
<td>150</td>
<td>6</td>
</tr>
<tr>
<td>Internship</td>
<td>600</td>
<td>24</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>1,500</strong></td>
<td><strong>60</strong></td>
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</table>
For further information on the educational offer of the Professional Master please check [https://www.unitn.it/master-adbot](https://www.unitn.it/master-adbot).

**Admission requirements**

Candidates must hold an Italian Master of Science degree in:

- Computer Science (Italian degree class LM-18)
- Aerospace and Astronautics Engineering (Italian degree class LM-20)
- Biomedical Engineering (Italian degree class LM-21)
- Chemical Engineering (Italian degree class LM-22)
- Automation Engineering (Italian degree class LM-25)
- Telecommunications Engineering (Italian degree class LM-27)
- Electrical Engineering (Italian degree class LM-28)
- Electronic Engineering (Italian degree class LM-29)
- Computer Engineering (Italian degree class LM-32)
- Mechanical Engineering (Italian degree class LM-33)
- Materials Science and Engineering (Italian degree class LM-53)

or

- equivalent Italian degree obtained according to the D.M. 270/04 or of the D.M. 509/99 ([http://attiministeriali.miur.it/UserFiles/3160.pdf](http://attiministeriali.miur.it/UserFiles/3160.pdf))

or

- equivalent Italian degree obtained according to the regulations prior to D.M. 509/99 ([http://attiministeriali.miur.it/UserFiles/3160.pdf](http://attiministeriali.miur.it/UserFiles/3160.pdf))

or

- foreign degree, recognized as equivalent (for further information please contact supportostudentipovo@unitn.it)

Graduating students who intend to obtain the degree by the beginning of the Master's activities will be admitted to participate in the selection. If admitted, graduating students who will confirm the enrollment will be admitted to participate in the Professional Master in Autonomous Driving and Enabling Technologies under "condition", until they will obtain the title; once the title is obtained, they will have to inform the contact person of the Professional Master within 5 working days from the date of achievement of the degree for the final enrollment and the payment of the participation fee.

**Application**

Applications can be submitted from **February 8, 2019** (at **09:00 am**), to **April 1st, 2019** (at **12:00 pm**).

Application attachments:

- curriculum vitae et studiorum
- short paper with which the choice to participate to the Professional Master is explained
- any publications
- copy of a valid ID document

**Auditors**
It is possible to participate in the professional Master as an auditor, limited to lectures, for a maximum of no. 5 places available in each teaching activity and for a maximum of 10 credits. In this case it is not necessary to hold the degree required for admission to the Professional Master. Admitted auditors must pay a registration fee, which varies according to the number of credits, as indicated on the website of the master. At the end of the frontal activities the auditor will receive a certificate of attendance. The application can be submitted at [https://www.unitn.it/master-adbot](https://www.unitn.it/master-adbot).

**Admission Shortlist**

The selection of admitted candidates consists in the evaluation of the Curriculum Vitae et Studiorum, of any publication and a motivational letter that explains the participation to the Professional Master.

<table>
<thead>
<tr>
<th>Curriculum vitae et studiorum/publications</th>
<th>Max 80 points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short paper with which the choice to participate to the Professional Master is explained</td>
<td>Max 20 points</td>
</tr>
</tbody>
</table>

**Total**

| 100 points |

In case of ex aequo priority will be given to the younger candidate. Candidates who will obtained a minimum score of 70/100, will be eligible in the admission shortlist which will be published at [https://www.unitn.it/master-adbot](https://www.unitn.it/master-adbot) by Monday, April 8, 2019.

**Enrollment, scholarship and reimbursement**

Admitted candidates will be asked to enroll to the Professional Master and to pay the first installment of the participation fee by **Monday, April 15, 2019**.

On the basis of the enrollments of the admitted candidates another admission shortlist will be published by **Tuesday, April 16, 2019**. Candidates admitted in the second admission shortlist will be asked to enroll to the Professional Master and to pay the first installment of the participation fee by **Friday, April 19, 2019**.

The participation fee for the professional Master is € 2,500.00 (two thousand five hundred/00) duty stamp excluded: € 1,516.00 (one thousand five hundred sixteen) to be paid by the deadline for enrollment, € 1,000.00 (one thousand/00) by **Friday, December 13, 2019**.

10 scholarships will be awarded to the first 10 candidates admitted to the Professional Master on the basis of the admission shortlist. The scholarship has the following characteristics:

- exemption from payment of the participation fee
- disbursement of a gross monthly amount of Euro 833,3 (eighthundredtrirty/00);
- exemption from payment of the application for registration

Further scholarships funded by external institutions/companies may be added within the publication of the admission shortlist.

Students carrying out external internship will have the right of 2,000.00 Euros (two thousand/00) maximum reimbursement, upon presentation of expense documentation.

The registration fee for the Master is not refundable. The Director of the Master can accept, by way of exception, applications for partial reimbursement of registration fees justified by the occurrence of unexpected and documented causes of force majeure, which make it impossible to attend. In such cases,
the refund can not in any case exceed 60% of the total contribution. In any case, reimbursement requests can not be accepted if more than one third of the activities have been carried out.

Exams
The learning assessment will be carried out with written or oral verification and with a corresponding evaluation.

At the end of the Professional Master participants who will have carried out all the activities and fulfilled their obligations, passing the final exam consisting in the presentation of a written project (Project work) related to a project approved by the Commission appointed by the Board of Directors, will be awarded with “Diploma di Master Universitario di secondo livello in ADBoT - Autonomous Driving and Enabling Technologies”.

Students who will not reach the minimum required attendance and / or who have not passed the exams required for the acquisition of the necessary number of credits for the achievement of the title, will receive a certificate stating the carried out attendance to the educational activities and the outcomes of any passed exam.

Further information and relevant deadlines
The University of Trento will allow the Professional Master’s students to use libraries and laboratories, to access to canteen services and, in general, access to facilities for students.

For all the information and updates on the present admission call and on this edition of the Professional Master, please check https://www.unitn.it/master-adbot.

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<thead>
<tr>
<th>Relevant deadlines</th>
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<tbody>
<tr>
<td>Online application</td>
<td>from 08/02/2019 to 01/04/2019</td>
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<tr>
<td>Admission shortlist publication</td>
<td>by 08/04/2019</td>
</tr>
<tr>
<td>Enrollment of the admitted candidates to the</td>
<td>by 15/04/2019</td>
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<tr>
<td>Professional Master and payment of the participation fee</td>
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<tr>
<td>Publication of the second admission shortlist</td>
<td>by 16/04/2019</td>
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<tr>
<td>Enrollment of the admitted candidates in the</td>
<td>by 19/04/2019</td>
</tr>
<tr>
<td>second admission shortlist to the Professional Master</td>
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<td>to the Professional Master and payment of the participation fee</td>
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Trento, February 8, 2019