



# **THE MOTORVEHICLE UNIVERSITY THAT DRIVES YOU INTO THE FUTURE.**

# WHO IS MUNER

It's the result of a **synergetic connection between 4 Italian Universities**, that are synonymous with advanced training, **and the Motor Companies that represent the excellence of Made in Italy in the world** - historically rooted into the Emilia-Romagna Motor Valley - **with the support by the Regional Government.**

Together they designed the **9 high-level careers in Automotive Engineering of the future.**

FOUNDING PARTNERS



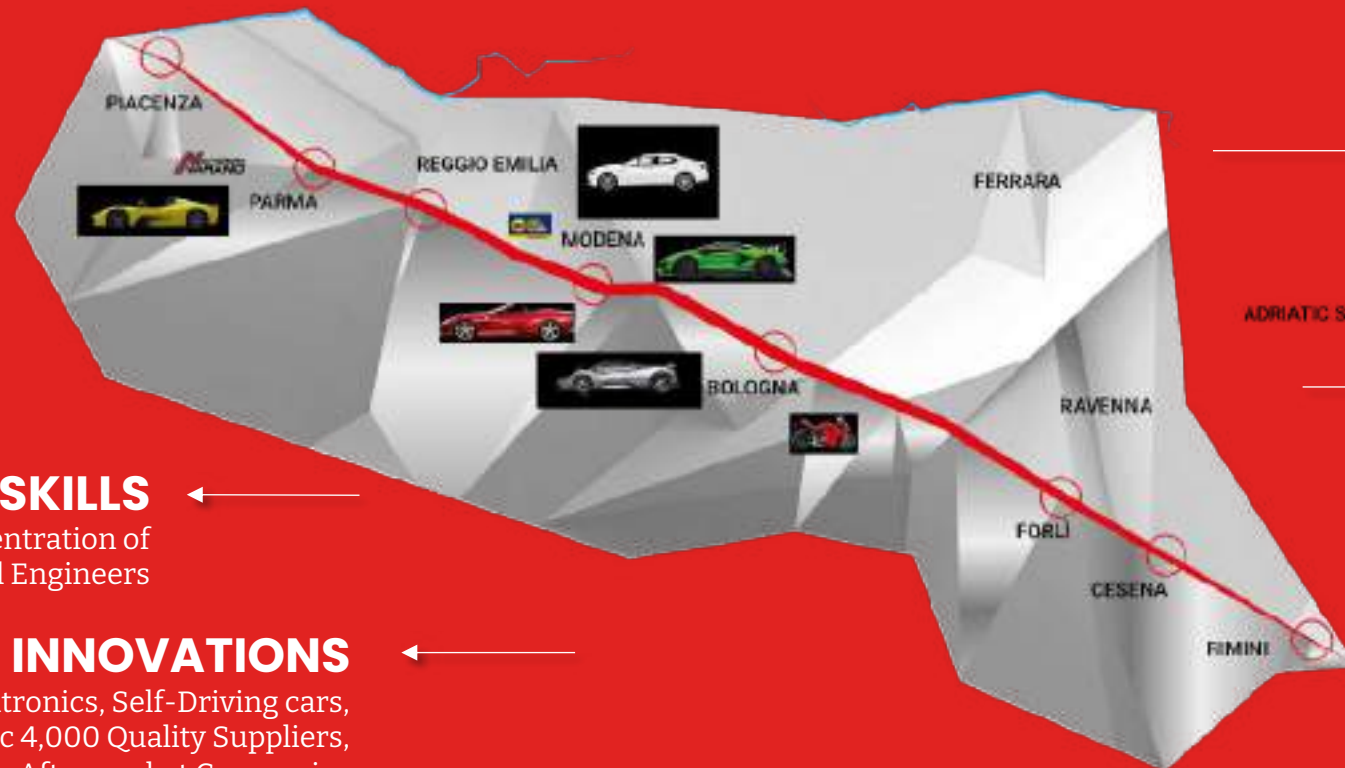
REGULAR PARTNERS



**MUNER OFFICIAL VIDEO**



# EMILIA ROMAGNA KEY FACTS



## SKILLS

High Concentration of  
Mechanical Engineers

## INNOVATIONS

Mechatronics, Self-Driving cars,  
Electric 4,000 Quality Suppliers,  
Startups, Aftermarket Companies

## TOP AUTOMOTIVE COMPANIES

Automobili Lamborghini, Dallara, Ducati,  
Ferrari, HPE Coxa, Maserati, Magneti Marelli,  
Pagani Automobili, Scuderia AlphaTauri

## TOTAL VALUE ADDED

€ 146 BLNS  
(13% Of Italian GNP)

## HUMAN CAPITAL

Enrolled Students: about 150.000  
Foreign Enrolled Students: about 11.000

## MUSEUMS

Ducati Museum, Ferrari Maranello Museum,  
Enzo Ferrari Museum, Lamborghini Museum,  
Ferruccio Lamborghini Museum, Horacio  
Pagani Museum

## 4 UNIVERSITIES



ALMA MATER STUDIORUM  
UNIVERSITÀ DI BOLOGNA



Università  
degli Studi  
di Ferrara



UNIMORE  
UNIVERSITÀ DEGLI STUDI DI  
MODENA E REGGIO EMILIA



UNIVERSITÀ  
DI PARMA

## 18 TOP BRANDS



dallara



HPE GROUP



PAGANI



MAHLE



Sponsoring



Engineering-focused scholarships for underrepresented students



## 9 HIGHLY SPECIALIZED PROFESSIONAL PROFILES

EEIV – Autonomous Driving Engineering

EEIV – Electronic and Communication System

EVE - Electric Vehicle Engineering

AAE - High Performance Car Design

AAE - Racing Car Design

AAE - Advanced Motorcycle Engineering

AAE - Advanced Sportscar Manufacturing

AAE - Advanced Powertrain

AAE – Off-highway Vehicle Engineering

NEW



# OUR MASTER'S DEGREES



**ELECTRIC  
VEHICLE  
ENGINEERING**



**ADVANCED  
POWERTRAIN**



**HIGH PERFORMANCE  
CAR DESIGN**



**ELECTRONIC AND  
COMMUNICATION  
SYSTEMS**



**ADVANCED  
MOTORCYCLE  
ENGINEERING**



**RACING CAR  
DESIGN**



**AUTONOMOUS  
DRIVING  
ENGINEERING**



**ADVANCED  
SPORTSCAR  
MANUFACTURING**



**OFF-HIGHWAY  
VEHICLE ENGINEERING**

# FACTS AND FIGURES

## OUR STUDENTS:

- **210 places offered in 2023/2024**
- **Over 1000 contacts for admission**
- **80% of students graduated on time**
- **80% of students graduated with honors**
- **95% of students employed one year after graduation**
- **70% of students employed by MUNER affiliates**

# OUR SUMMER&WINTER SCHOOLS

## — S&W SCHOOLS

ITALIAN MOTOR VALLEY  
EXPERIENCE

## — S&W SCHOOLS

WOMEN IN TRANSPORT

## — S&W SCHOOLS

FUTURE OF  
AUTOMOTIVE FOR  
INTELLIGENT MOBILITY

## — S&W SCHOOLS

INTERNATIONAL SUMMER  
SCHOOL IN INDUSTRIAL  
ENGINEERING FOR  
ADVANCED AUTOMOTIVE





# S&W SCHOOLS

ITALIAN MOTOR VALLEY  
EXPERIENCE

TARGET

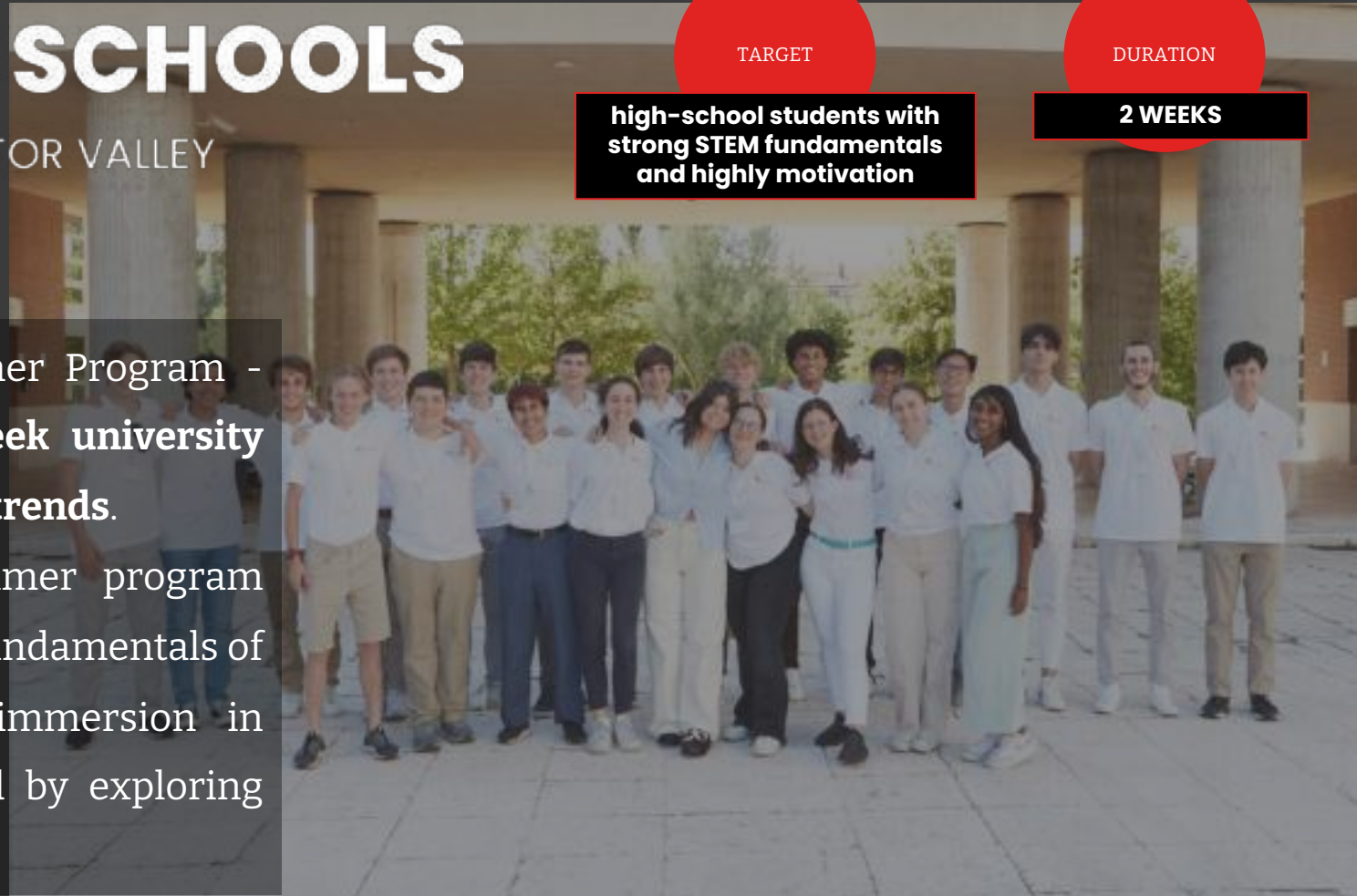
high-school students with  
strong STEM fundamentals  
and highly motivation

DURATION

2 WEEKS

The High School Advanced Engineering Summer Program - Italian Motor Valley Experience **offers a 2-week university experience focused on cutting-edge automotive trends.**

Designed for **high school students**, this summer program provides students with an understanding of the fundamentals of high-performance vehicles through a deep immersion in lectures delivered by university professors and by exploring world's leading automotive companies.





**S&W SCHOOLS**

ITALIAN MOTOR VALLEY  
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#### PARTNERS

Fondazione  
Marco Biagi



**Victoria**  
LANGUAGES AND CULTURES

#### HIGHLIGHTS

**PLACES:** min 20 max 30 students

**TARGET:** High school students with a strong STEM background and an interest in the automotive industry, age 16 or older at the time of enrollment.

**WHEN:** July 14 - July 27, 2024

**WHERE:** Modena, hosted by the Department of Engineering Enzo Ferrari, University of Modena and Reggio Emilia (UNIMORE), Italy

**INFO:** [imve.summerschool@unimore.it](mailto:imve.summerschool@unimore.it)



#### ACADEMIC LECTURES

##### **A car moves...**

- Overview on current automotive trend
- Structural component dimensioning
- Powertrain control and Powertrain testing
- Modern Power Unit Architecture
- Introduction to signals and sensors for automotive application

##### **...Against the wind**

- Basics of aerodynamics and examples
- Overview on composite materials
- Additive manufacturing, and lab practice testing of materials
- Introduction to Noise and vibrations and Lab Practice
- Studying and design of a component in CAD (lab practice)

#### HANDS-ON ACTIVITIES

- Exclusive activities with the MUNER partner companies, usually 4 per year: half-day or full-day comprising visits to production sites, visits to museums, seminars given by engineers
- Robotics lab
- Final round table «get in gear»: Human resources managers from some of the MUNER's partner companies discuss burning issues for the engineers of the future, and an unique opportunity to ask for advice on your CV

#### CULTURAL ACTIVITIES

Discover the Motor Valley through:

- Tour of the historic center of Modena
- Pasta afternoon
- At the weekend: 1 full-day trip to Florence and visit to the David.



**S&W SCHOOLS**

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EMILIA ROMAGNA



**UNIMORE**  
UNIVERSITÀ DEGLI STUDI DI  
MODENA E REGGIO EMILIA

### ORGANIZATION OF THE TWO WEEK

- Accommodation is in the Fondazione San Carlo, a historic university college in the heart of the city.
- The organization of the arrival and departure of the group is coordinated by Victoria Langues and Cultures

ALL DETAILS OF THE PROGRAM'S ORGANIZATION WILL BE EMAILED TO THE FAMILIES AND DISCUSSED DURING THE PRE-DEPARTURE ORIENTATION (PDO) MEETING. PDO WILL BE SCHEDULED ONE MONTH PRIOR TO THE START OF THE PROGRAM.

### DAILY ORGANIZATION

- Daily commute is by public bus, accompanied by our Chaperone.
- Activities begin at 9AM and end at 6PM, with a one-hour lunch break. Schedule may vary depending on specific activities of the day.

Special days:

- **DAY 1:** Orientation and classes are scheduled in the afternoon to get over the jet lag.
- **END OF THE 2nd WEEK,** an afternoon of shopping with our chaperone!
- **LAST EVENING:** The group will enjoy a farewell dinner.





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Collegio San Carlo



Department of Engineering Enzo Ferrari





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#### FEE

**3.800,00 euros**

#### WHAT IS INCLUDED?

- Accommodation in Modena city center, full board on weekdays and half board on weekends.
- On-site transfers, including private shuttle to and from the agreed airport.
- 24/7 on-site Chaperone.
- Medical travel insurance and mandatory university insurance.
- Academic and cultural activities as scheduled in the final program.

#### WHAT IS NOT INCLUDED?

- Flights and any personal transfers (e.g., if you cannot take the scheduled shuttle to/from the airport).
- Weekend meals and any personal expenses.

#### ONLINE APPLICATION

Apply here: <https://fmb.unimore.it/imve-2024/>

#### Tips:

- Provide the information requested, including contact and personal information.
- In the CV, highlight both your grades and any extracurricular STEM activities.
- In your cover letter, emphasize your passion for the automotive world and why you chose to apply to this program.



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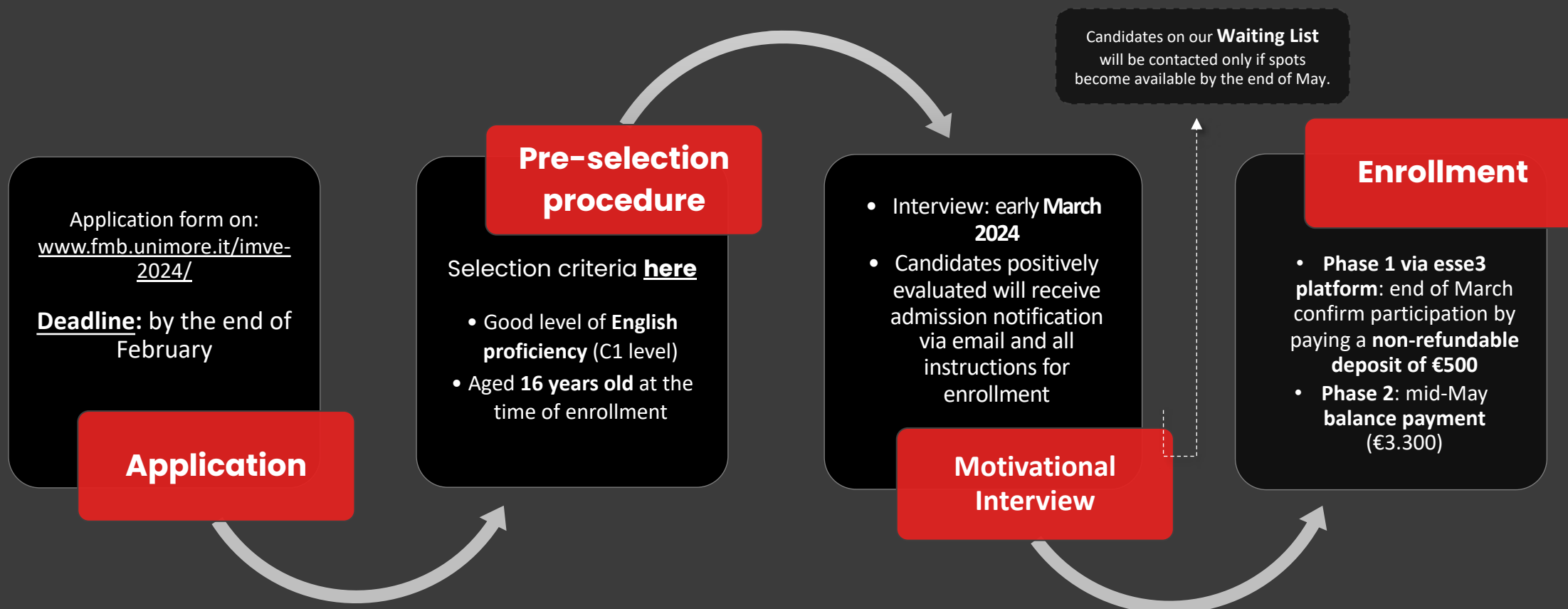


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### STEP TO GET STARTED





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**CONTACTS**

**[imve.summerschool@unimore.it](mailto:imve.summerschool@unimore.it)**



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