



POLITÉCNICA



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R&D&i Institutes

UNIVERSITY INSTITUTE FOR AUTOMOBILE RESEARCH (INSIA)



INSIA

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Organizations collaborating with INSIA

Asociación de Empresarios del Metal de Madrid (AECIM)
Asociación Española de Fabricantes de Automóviles
y Camiones (ANFAC)
Asociación Española de Fabricantes de Equipos y Componentes
para la Automoción (SERNAUTO)
Asociación nacional fabricantes carrocerías autobuses ASCABUS
Consejo Superior de Investigaciones Científicas CSIC
Fundación de Ferrocarriles
Fundación Instituto Tecnológico para la Seguridad
en el Automóvil (FITSA)
Instituto Nacional de Técnica Aeroespacial (INTA)
Ayuntamiento de Madrid
Comunidad de Madrid
Dirección General de Tráfico
Dirección General del Transporte Terrestre. (Ministerio de Fomento)
Subdirección General de Calidad y Seguridad Industrial
del Ministerio de Industria, Turismo y Comercio
Bast (Federal Highway Research Institute)
CITEAN, FTSS First Technology Safety Systems

INRETS, TNO. TRL
Instituto Politécnico Nacional (México)
NIAR (Wichita State University). USA
TUG Graz University of Technology
Universidad Antonio de Nebrija de Madrid
Universidad Carlos III de Madrid
Universidad de Chalmers
Universidad Nacional de Salta (Argentina)
ALSA
BEULAS, FAREBUS, FERQUI
BOSCH, VALEO SISTEMAS ELECTRICOS, S.A.
BRIDGESTONE HISPANIA S.A.
CASTELLÓN, S.A.
CASTROSUA, IRIZAR, SUNSUNDEGUL, CAETANO
FCC, CEMUSA
EMT
IVECO, MERCEDES, PSA
ORBEA
REHATRANS, S.A., VALVERAUTO



The University Institute for Automobile Research (INSIA) is a Research Institute of the Universidad Politécnica de Madrid (UPM) created by Royal Decree 1383/1993, assigned to the Higher Technical School of Industrial Engineering and integrated into the UPM Scientific and Technological Park.

This Institute is made up of highly qualified researchers, both academic researchers and under contract researchers, with more than 20 years of experience in R&D&i projects related to the automotive industry, vehicle and traffic security, and more recently, to the transportation environmental impact.

INSIA has carried out relevant studies on accidentology, transport, passive safety in buses, coaches and industrial vehicles, biomechanics applied to occupant and pedestrian protection in accidents, intelligent systems and vehicle engineering. It is also authorized as official laboratory to carry out official approval tests of vehicles and components according to several regulations and directives (buses and coaches, stability, tyres, seats, restraint systems) and important reforms.



INSIA

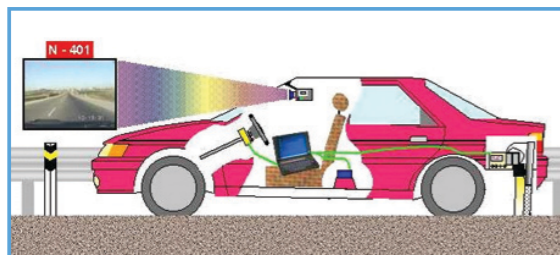


■ Safety in collective transport of people.
Vehicles and mobility & protection systems for people with reduced mobility.

■ Traffic accident research.
Analysis of causes and consequences.



■ Advanced driver assistance systems (ADAS).



■ Freight transport safety: vehicle and load.



■ Impact biomechanics applied to the improvement of vehicle passive safety.

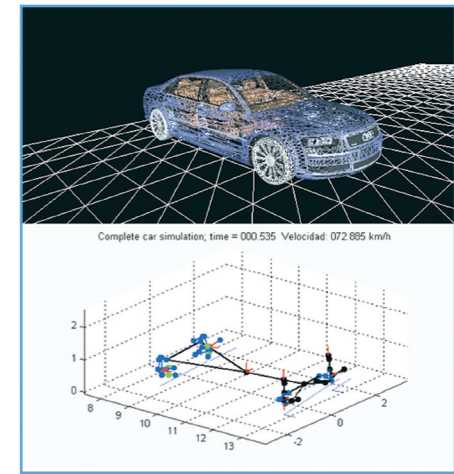


■ Evaluation and prediction of road transport impacts on safety and environment. Development and application of models.



■ Alternative propulsion systems and automobile vehicle environmental impact.

■ Computational mechanics applied to vehicle dynamic behaviour analysis.



TRAINING SERVICES

Master in automobile engineering

By means of its 17 editions in Spain and 2 carried out in Argentina (Buenos Aires) in collaboration with the University of Belgrade, our master has managed to succeed in providing training services for the automotive field, supported by the excellent acceptance by the more than 400 students who have completed it.



FORMULA SAE PROJECT

One of the aims pursued with this project is to supplement the automobile engineering training in students, as well as to contribute to the development of specific skills necessary for such a competitive and complex sector as the automotive one.