


FACULTY OF AUTOMOTIVE, MECATRONICS AND MECHANICAL ENGINEERING
DEPARTMENT OF AUTOMOTIVE ENGINEERING AND TRANSPORTS

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**PROJECT INNOVATION RESEARCH AND DEVELOPMENT-BASED ON
CONTRACT / GRANT WON THROUGH COMPETITION**

A) Member in the national research contracts (by CNCISIS), won through competition

1. The program: **IDEI**, National Plan for Research, Development and Innovation - PN II Project type: **Exploratory Research Project** Code: **ID_1098**, Nr. the Contract: **88/01.10.2007**, three-year (**Oct. 2007 - Sept. 2010**) *"Research on partial substitution of diesel or diesel engines with biodiesel-diesel blends and bioethanol"*.
2. The program: **Capabilities, Module I, no. 86/2007, 2007-2008**, "Bioenergy research center - BIOENERG-RO".
3. The program: **CEEX-Module 1 – Complex Projects, Research grant ECOTRANS / (2005-2008), the Contract no. X1C01 / 03.10.2005. Project Title:** *"Possibilities and limits of greening urban transport using fuels derived from vegetable oils"*. Project coordinator: Technical University of Cluj-Napoca.
4. The program: **"Research of Excellence", Module 1, Type of Project P-CD, the Contract no. 38/01.08.2006. Project Title:** *"New technologies, modern, unconventional superior valorization of the biomass - production of biogasoline, BIOBENZ"*. Partner in the project: Technical University of Cluj-Napoca. Contract duration: **2 years 2 months 15 days**.
5. The program: **"Research of Excellence" Module 1 Project type: P-CD, the Contract no. 124/20.07.2006. Project title:** *"Complex system for investigating the phenomena of degradation of arable land and monitoring the negative impact of agriculture on natural resources and global climate change."* Partner in the project: Technical University of Cluj-Napoca. Subcontract Duration: **2 years and 1 month**.
6. The program: **CEEX – Module 1; the Contract: CeEx/2199/MEC/NASR/104/01.08.2006. Project title:** *"Sustainable capitalization of medicinal plants and hops with obtaining bioactive preparations"*. Duration: **2006-2008**. Project coordinator: Veterinary Medicine Cluj-Napoca. (<http://www.usamvcluj.ro/vaduplamed/colectiv.htm>). Project partner (P3): Technical University of Cluj-Napoca.
7. The contract nr. **5 C 12/2003 (AMTRANS)** (Member of the UTC-N), (**2003-2005**): *Use of alternative clean fuels in urban transport to limit the polluting effects in cities*, coordinated by ICIA Cluj-Napoca (UTC-N partner).
8. Priority Project **PP7** (Member of the UTC-N), (**2002-2004**): Biofuels clean diesel and glycerin obtained by chemical processing of renewable resources. the Contract no. **112/2002 (MATNANTECH)**, coordinated by ICIA Cluj-Napoca (UTC-N partner).


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9. Project tip **A** (COD CNCSIS **874**), (**2004–2005**), "Research regarding the recycling used cooking oils by using them as fuel in compression ignition engines." The Contract no. **33385 / 29.06.2004**, Theme no. **A 13**; The Contract no. **34702 / 20.06.2005**, Theme no. **A 16**.
10. Project tip **A** (COD CNCSIS **902**), (**2004–2005**), "*Research regarding the increasing the energy efficiency, reducing the chemical pollution and noise by modeling wave effect from direct injection diesel engines manufactured in the country*". The Contract no. **33385/29.06.2004**, Theme no. **A 14**; The Contract no. **34702/20.06.2005**, Theme no. **A 19**.
11. The contract nr. **25/3.06.2002**, financed from the state budget by MEC - HORIZON 2000; Contract theme: "*Research on the use of vegetable oils as alternative fuels in medium power Diesel engines and their effects for reducing the pollution*".
12. Project tip **A** (**2001–2002**) - financed from the state budget by MEC-by CNCSIS, project title "*Research on reducing the fuel consumption and pollution of internal combustion engines by ionizing air-fuel mixture*". The Contract Nr. **3988/2001**; theme **459**; by CNCSIS code **1319**; The Contract Nr. **33531/2002**; theme **38**; by CNCSIS code **459**.

B) Member of the research groups of of some projects with international financing won through competition

13. Project no. **861/2002** (Grant Agreement no. **1523/26.09.2002**), (**2002-2005**) funded by the World Bank through the Ministry of Agriculture and Food. Project Title: "*Recovery rapeseed production in order to be used as fuel for tractors in Romania*".

C) Member of the research groups of contracts with other institutions

14. Contract Number. **7951/17.04.2007**, contract research title: "*Restoring the road infrastructure and improving Traffic - traffic study in the city of Oltenița*". Duration: 19.03.2007 up to 19.10.2007. Beneficiary: Municipality Oltenița. Address: Oltenița, Republic str, No. 40, Calarasi County, Postal code: 915400. Contractor: Technical University of Cluj-Napoca, Faculty of Mechanical Engineering, Department: Automotive and Agricultural Machinery.

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