

Description of Funded Research Projects

1st Call for H.F.R.I. Research Projects
to support Post-Doctoral Researchers



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Research Project Title:

**Performance Evaluation of Low
Energy Asphalt mixes and their
impact on Pavement
Sustainability (LEAPS)**

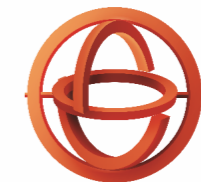
Principal Investigator:
Panos Georgiou



Popular Title:
Sustainable asphalt mix technologies

Scientific Field:
Engineering and technological sciences

Host Institution:
National Technical University of Athens”



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According to the Eurostat and the European Environment Agency transportation accounts for over 23 percent, with increasing trend since 1990, of all human-caused GHG emissions in the European Union. EU has committed for 2020 to cutting its emissions to 20% below 1990 levels. So, a challenge emerges to reduce GHG emissions and improve the sustainability of pavement structures, which provide mobility and access to a range of users as integral part of the roadway and transportation networks.

Dr. Panos Georgiou will investigate the performance of low energy asphalt mixtures and evaluate its impact in advancing the pavement sustainability. The goal of this research project is to develop a 'green' asphalt-based product, energy-efficient and durable for implementation in pavement construction and maintenance activities.

The development of a 'green' asphalt –based product, energy-efficient and durable is anticipated to deliver significant economic, social and environmental benefits. Among others, are included a) the decrease of greenhouse gas emissions (GHG), b) the exploitation reduction of quarries, c) the decrease of fumes and odour emissions to create cooler working conditions for the asphalt workers and d) the decrease of fuel consumption and energy costs in production.

To me, H.F.R.I. funding
would mean...

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Ability to exploit and develop existing knowledge and expertise, as well as significant support for high quality research on cutting-edge technologies.

*The Principal Investigator,
Panos Georgiou*

Funding

Amount: **145.080,9 €**

Duration: **24 months**

Foundation: **H.F.R.I.**





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HELLENIC REPUBLIC
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GENERAL SECRETARIAT FOR
RESEARCH AND TECHNOLOGY