



**TRAINING CAPACITIES IN AGRICULTURE
AND URBAN-RURAL INTERACTIONS
FOR SUSTAINABLE DEVELOPMENT OF
MEGACITIES Co-funded by the ERASMUS+
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INTERNSHIP PROGRAMME

ID Code: RSAU-LAMP-01¹

Title	Smart technologies in environmental and agroecological monitoring
Initial date (2019)	July 1
End date (2019)	August 10
Number of positions (max)	3
Required knowledges and skills	Basic knowledge in ecology, soil science and/or agronomy will be needed. Skills in statistics and GIS will be highly appreciated
Academic coordinator	Prof. Ivan Vasenev
Objectives	The internship is focused on smart technology application skills development of environmental and agroecological monitoring from field and lab investigation till GIS, RS, IoT and/or DSS implementation in the LAMP monitoring sites
Short course modules	Introduction to smart technologies in environmental and agroecological monitoring Introduction to data analysis with GS, RS, GIS and DSS
Internship activities	Investigated in the Laboratory of Agroecological Monitoring, Ecosystem Modeling and Prediction (LAMP) natural forest, agricultural, urban and wetland monitoring sites give convenient environment to develop personal skills in the smart technologies of environmental and agroecological monitoring from detailed field and modern lab investigation till GIS, RS, IoT and/or DSS implementation in the LAMP monitoring sites which are representative for principal natural and functional zones at the Central Region of Russia including Moscow megalopolis, Central Forest and Central Chernozemic Reserves. The internship activities will include monitoring green house gases' fluxes and soil migration, chemical, physical and biological properties of natural and man-changed soils, state and functions of crops, natural and/or urban vegetation. Especial attention will be given to data analysis with modern tools of GS, RS, GIS and DSS up to paper draft and/or recommendation for practice developing.
Hosting institution	Russian State Agrarian University – Moscow Timiryazev Agricultural Academy, Laboratory of Agroecological Monitoring, Ecosystem Modeling and Prediction (LAMP) and collaborated experimental units
Academic tutor	Dr. Alexei Yaroslavtsev (Yaroslavtsev@gmail.com) Dr. Dmitry Morev (morev@rgau-msha.ru)
Hosting institution tutor	Dr. Irina Andreeva (Andreeva.borovik@gmail.com)
Additional notes	The internship duration is 21-28 days. Accommodation at the RSAU campus can be provided for approximately 175-200 euro for the whole period of stay. Please consider applying for a visa in advance