



Erasmus+ Traineeship

EMPLOYER INFORMATION	
Name of Organization	University of Murcia
UMU Contact Person and e-mail	Ambrosio Toval atoval@um.es
UMU Address	Facultad de Informática. Departamento de Informática y Sistemas. Campus de Espinardo.
UMU Telephone	868884603

ENTERPRISE JOB DESCRIPTION	
Name of enterprise	At University of Murcia (UMU) Software Engineering Research Group
Duration	From 4 to 9 months
Working Hours	Around 25 h/week (approximately 20% of this time face-to-face, the rest online or telework)
Project Description	The student will be involved in a project aiming at the research on the DevOps paradigm, studying development software engineering methods, techniques, and tools in global business contexts. Most DevOps techniques and tools imply continuously and automatically processing the software to ensure its quality. One of the goals is to develop contents and serious games for the training of developers, thus facilitating their immersion in global DevOps development teams.



Tasks of the Erasmus intern	The successful applicant will contribute with the development of a simple DevOps case study, to show how various of the related tools interoperate within this paradigm. An extension of this simple case study will include some basic aspects for DevSecOps (an augmentation of DevOps to allow for security practices to be integrated into the DevOps approach). In parallel, associated support material to help in the training of professionals and/or other students, in this area will be also produced.
Requirements	The applicant must have a sufficient background in at least three of the set of tools currently associated to DevOps. Some examples of such tools (non-exclusive): Open source technologies such as Docker, Ansible, Jenkins, Terraform or the free tier of cloud computing services from Amazon Web Services, Microsoft Azure, Google Cloud Platform; Git, GitHub, Maven, Gradle, etc. Visit https://digital.ai/periodic-table-of-DevOps-tools/ for a more complete list of candidate DevOps associated tools. Relationship skills, Initiative and autonomy will be highly appreciated. A good level of English language is also required.
What do we offer	We offer immediate incorporation to an active project supported by national competitive funding. The student will benefit from large laboratory space, modern research facilities and from teamwork with highly competent PhD students and post-doctoral researchers, under the close supervision and guidance from senior personnel and in a friendly, collaborative environment. She/he will acquire expertise in most basic software engineering techniques, as well as in more specialized techniques related to DevOps certification, gamification as well as security and privacy knowledge reuse strategies and its incorporation in DevSecOps.
Website	https://curie.um.es/curie/catalogo-ficha.du?seof_codigo=1&perf_codigo=4&peva_cod=E097&titulo=INFORM%C3%81TICA+Y+SISTEMAS&sec_codigo=&cods=E097*01