

Oferta de Proyecto de Tesis (vigente durante el año natural 2024)

Título orientativo de la Tesis Doctoral

Code changes in large software projects

Área de Conocimiento* / Línea de Investigación

Ingeniería y Arquitectura / Tecnologías de la Información y las Comunicaciones

Resumen de la Tesis Doctoral (máximo 300 palabras)

Large software projects developed by diverse communities, such as the Linux kernel, are fundamental for the software industry. However, there is relatively little understanding about how they make their code bases evolve, how they maintain their quality standards, and how comparable their processes are to those of traditional, in-house development. This comparison is specially important when the software has safety-critical implications, for example when it is to be used in the automotive or aerospace industries. This thesis will study how code changes in those projects are processed by their development communities, and how they impact the overall quality of the project.

¿Está asociado el desarrollo de esta tesis a la ejecución de algún proyecto de investigación? En caso afirmativo, proporcione detalles del proyecto (título, entidad financiadora y plazo de ejecución)

Not for now, but there could be options in the future.

Perfil Académico del Estudiante (máximo 200 palabras)

Good knowledge of FOSS (free, open source software) development. Preferibly, background on software engineering, but other related degree could be good enough. Data analytics skills would be a good complement.

Contacto: e-mail institucional del Director/a

jesus.gonzalez.barahona @ urjc.es

Web institucional del Director/a

<https://gestion2.urjc.es/pdi/ver/jesus.gonzalez.barahona>

*Véanse las Áreas de Conocimiento en <https://www.urjc.es/informacion-practica#oferta-proyectos-de-tesis>. Cada proyecto se incluirá en una única área de conocimiento