

Call for Applications

Visiting Associate Professor

The Knowledge Reuse Group

Departamento de Informática / Department of Computer Science and Engineering
 Universidad Carlos III de Madrid, Spain

- **Location:** Leganés, Madrid, Spain
- **Contract:** Full Time
- **Duration:** 1 year + optional 3 to 5 year extension
- **Applications Deadline:** September 30th, 2018
- **Starting Date:** January 21st-25th, 2019

The Department of Computer Science and Engineering needs to fill a Visiting Associate Professor position. This position will start on January 21st-25th, 2019. Applicants must have completed a PhD in Software Engineering, Systems Engineering, Computer Science, Information Technology or a closely related field by the application closing date.

Description

Job Title	Visiting Associate Professor in Software / Systems Engineering
Minimum Qualifications	PhD in Software Engineering, Systems Engineering, Computer Science, Information Technology, or a closely related field by the appointment date.
Job Summary	<p>Candidates must show a promising record in both research and teaching areas. The target areas of interest to be covered in this position include (but are not limited to):</p> <ul style="list-style-type: none"> ▪ Software Engineering / Systems Engineering ▪ Model-based Software Development ▪ Requirements Engineering ▪ Knowledge-based Systems ▪ Analytical Modeling and Simulation (Modelica, FMI/FMU, etc.) ▪ Descriptive Modeling and Simulation (UML/SysML, etc.) ▪ Information and Knowledge Retrieval and Reuse <p>The candidate is expected to work with researchers from both similar and different disciplines across different universities & industrial partners around the world. Candidates shall have a strong background on Software/Systems engineering and shall be able to demonstrate the ability to undertake interdisciplinary research.</p>

	<p>The candidate shall have a strong record in relevant fields of Software and/or Systems Engineering. Furthermore, a substantial external reputation shall be demonstrated with special emphasis of academic potential through high-quality research publications and participation in competitive research projects at international level.</p> <p>The expected candidate must have a good qualification (C1 level or equivalent) to write and read English (if not native) in order to prepare and teach courses. Knowledge of Spanish language is not necessary.</p>
Position Duties	<ul style="list-style-type: none"> ▪ Support teaching objectives of the Department. ▪ Prepare and teach courses in English in undergraduate and master levels. ▪ Develop the research activities of the Department. ▪ Undertake research aligned to the research group strategy. ▪ Become an active member within a multidisciplinary research group (around 20 persons) from all over the world. ▪ Manage small PhD students groups. ▪ Keep the international reputation of the University through high-quality contributions in main journals, conferences and venues. ▪ Participate and lead activities in research projects ▪ Contribute and develop innovative research proposals, projects and funding applications at Regional, National, European and International level. ▪ Leadership in the creation and management of large international consortiums. ▪ Collaborate in the development of standards, libraries and SW tools within the team.
Start date for applications	15/08/2018
End date for applications	30/09/2018 at 23.59 (CET)
Tentative contracting date	January 21st-25th, 2019
Job Category	Full-time. Faculty position. Visiting Associate Professor.
Salary	Yearly approx. 36,000 Euro (before taxes).
Duration	The initial appointment will be set for a period of 1 year with an optional 3 to 5 years extension (based on performance indicators). This position does not lead to a tenured position at the University.
Submission	<p>Electronic applications must be sent to: jobs@kr.inf.uc3m.es</p> <p>The application must contain:</p>

	<ol style="list-style-type: none"> 1. Letter of intent. 2. Statement of research interests. 3. Statement of teaching experience. 4. Detailed CV including education, job experience and publication record. 5. At least 3 reference letters are required.
Selection process	<ul style="list-style-type: none"> ▪ Shortlisted candidates publication ▪ Personal interview (more than one round should be expected) ▪ Practical test/use case ▪ Final ranking, decision and notification
About the Knowledge Reuse Group (KR Group)	<p>The Knowledge Reuse Group (Work with us (KR Group - UC3M)) is a multidisciplinary research group with members belonging to the Department of Computer Science and Engineering (Departamento de Informática, http://www.inf.uc3m.es/en) and the Department of Library and Information Sciences (Departamento de Biblioteconomía y Documentación) within the Carlos III University of Madrid (Universidad Carlos III de Madrid, https://www.uc3m.es/Home). The research group is headed by Professor Dr. Juan Llorens:</p> <p>http://www.linkedin.com/in/llorensjuan , https://www.researchgate.net/profile/Juan_Llorens/</p> <p>Since its creation the group has researched in the areas of software and systems engineering, requirements engineering, information retrieval, knowledge representation and management and semantic technologies. KR's mission is to promote software and systems <i>reuse</i> within organizations, focusing on:</p> <ul style="list-style-type: none"> ▪ Providing research in software & systems engineering processes and methods. ▪ Applying semantic-based technologies to Systems Engineering practice. ▪ Addressing the new-technology opportunities. ▪ Disseminating knowledge to the scientific and industrial communities. <p>KR brings together these activities to enable and support people, organizations and systems to collaborate and interoperate in the new global context. Our research lines focus on software and systems engineering applied to reuse, quality, traceability, interoperability and reasoning, with focus on:</p> <ul style="list-style-type: none"> ▪ Software representation. Different means to understand, transform, retrieve and reuse software at any level. ▪ Systems Engineering. Exploiting knowledge-based techniques to effectively improve the communication among traditional systems

	<p>engineering practices and enable better solutions to the development of complex systems.</p> <ul style="list-style-type: none"> ▪ Ontology engineering, mainly applied to systems engineering. ▪ Applications: Cyber-Physical systems, Industry 4.0, Smart environments, etc. <p>The following list summarizes some projects in which the group is currently involved:</p> <ul style="list-style-type: none"> ▪ AMASS (https://www.amass-ecsel.eu/). Architecture-driven, Multi-concern and Seamless Assurance and Certification of Cyber-Physical Systems. ▪ IoD (https://www.celticplus.eu/project-iod/). Internet of DevOps. ▪ IMOLA (https://www.elra.eu/imola-ii/). Interoperability using Knowledge Management among Land Registry domain in Europe. <p>In addition, the Knowledge Reuse Group acts as the research and development department of The Reuse Company (http://www.reusecompany.com/).</p>
<p>About the Universidad Carlos III de Madrid</p>	<p>Learn more about the Carlos III University of Madrid in the following link: https://www.uc3m.es/About_UC3M</p>
<p>Further information</p>	<p>For additional information please contact: jobs@kr.inf.uc3m.es</p>
<p>Contact person</p>	<p>Anabel Fraga</p>