

Job Profile – Applied Scientist

Core information			
Job Title	Applied Scientist		
Dept./School/Inst.	Universidad Politécnica de Madrid	Section/Centre/Unit	Centre for Open Middleware
Salary (gross, p.a.)	25,000 – 35,000 euros depending on the quality of the candidate	Appointment period	18 months (with a possibility of extending it further in time if project results are successful)
Reports to (job title)	Oscar Corcho	Current location	Boadilla del Monte, Madrid, Spain
Contact e-mail to send CVs	jobs@delicias.dia.fi.upm.es	Application deadline	September 15 th , 2012

Purpose

To undertake research investigations in collaboration with and under the supervision of Dr Oscar Corcho, in the context of the project “Evolución de una plataforma de Widgets, mediante soporte para wiring”, which is a joint project between UPM (Ontology Engineering Group and ConWet Lab) and ISBAN, funded under the agreement between UPM and Banco Santander for the creation of the Centre for Open Middleware (COM).

The work to be done will consist in the analysis of the state of the art of languages (and their corresponding semantic extensions) for the description of Web services, widgets and mashups, and their extension for the specification of the semantics of existing widgets and mashups used by ISBAN in their products. Semantic descriptions will have to be created for existing widgets, and algorithms for data mediation will need to be developed to cover those needs.

Knowledge, Skills & Experience

	Requirements	Essential/Desirable
Qualifications	1. Undergraduate degree or equivalent in a relevant subject (e.g. Computer Science) or equivalent experience 2a. PhD and/or equivalent professional experience 2b. MSc in a relevant subject at distinction level and/or equivalent	1. Essential 2a. Desirable 2b. Desirable
Experience	3a. Experience of using/creating Semantic Web technologies and ontologies 3b. Experience of using/creating Web Service mediation frameworks 3c. Experience of creating social recommendation engines 4. Appropriate track record of publications in relevant high quality journals and/or conferences	3a. Desirable 3b. Desirable 3c. Desirable 4. Desirable
Knowledge, skills & abilities	5a. Knowledge of Web development frameworks and content management systems 5b. Knowledge of Semantic Web, ontology design principles, and best practices for Knowledge Representation 5c. Knowledge of object orientated programming languages (e.g. C++, Python or Java) 6. Understanding of the research and development process	5a. Essential 5b. Desirable 5c. Essential 6. Essential

	7. Ability to organise and prioritise own work and organise research within the project timetable	7. Essential
	8. Effective team working	8. Essential
	9. Excellent communication skills	9. Essential
	10. Understanding of software engineering principles	10. Essential
Attitude & disposition	11. Flexible and co-operative	11. Essential
	12. Self-motivated and hardworking	12. Essential
	13. Willingness to learn new skills	13. Essential
Other circumstances	14. Willingness to work flexibly in order to achieve project demands.	14. Essential
	15. Willingness to travel to meetings and conferences.	15. Desirable
	16. Availability for full length of project	16. Desirable

Main Duties and Responsibilities of the Role

1. Contribute towards the definition of the semantic extensions needed in order to cover the data mediation needs of the project
2. Responsible, under the general guidance of Oscar Corcho, for undertaking the programme of work.
3. Prepare reports of appropriate research results for private and public presentation through seminars and conferences.
4. Any other relevant activities related to the project as appropriate.
5. The duties of the post outlined above are not exhaustive, and the postholder will be expected to be co-operative and flexible.