PROJECT REFERENCE NUMBER: IES-2011-301136

Post-Doctoral Research Project Title	**Water Economics and Valuation of Watershed Services**
Project Description	Within the Rural, Water and Ecosystem Resources Unit, the BIOMES Action carries out research concerning the vulnerability of the water environment and provides recommendations for sustainable and adaptive management of waters in Europe. Aquatic ecosystems provide goods and services that affect human well-being. Implementation of programmes of measures for the achievements of targets fixed by EU water Directives may involve physical environmental changes whose underlying economic values need to be assessed in order to be socially acceptable. In this context, the successful candidate will develop relationships between water resources management and economic valuation by: • Integrating economic valuation components into ecological-hydrological models of aquatic ecosystems; to this end the candidate will interact with bio-physical modellers across the Institute for the development and application of an eco-hydro-economic model to Europe • Carrying out GIS-based spatial explicit cost-benefit analyses for market and non-market valuation of watershed services using a multiplicity of water valuation tools • Analysing trade-offs of water ecosystem services and rank management initiatives to achieve ecological, social and economic objectives of EU Directives and strategies impinging on water resource management.
Qualifications	The ideal candidate has a PhD in environmental economics or related fields (or a University degree <u>and</u> 5 years of research experience after the university degree giving access to doctoral studies). Experience in the field of applied economic modelling linked to environmental assessment as applied to water management is required. Knowledge of statistical techniques is also important. Relevant publications should be highlighted. The position requires good communication skills and capacity of delivering according to deadlines. Good knowledge of spoken and written English is required. The knowledge of another community

	language would be an advantage. The Joint Research Centre is an equal opportunity employer and is committed to increasing the diversity of its staff. It welcomes applications from women and minority groups.
Duration (12 - 36 months) **Provisional starting date**	36 months 1st Semester 2012
Scientific Responsible	Giovanni Bidoglio

Further information can be found at:
http://ies.jrc.ec.europa.eu/action-22002.html

Institute for Environment and Sustainability

Action: Biodiversity, Water and Ecosystem Services (BIOMES) – Unit H05