

Job Description

Post title: Research Assistant in solid mechanics (3D printed materials)	Post No: S4739
Organisation Unit: School of Science and technology	Date compiled: 21.11.2018
Grade: F	Hours per week: 37 Weeks per year: 52
If fixed term, state duration:	
<p>Immediate line manager: Academic Team Leader With dotted line responsibility to Dr Petros Siegkas</p> <p>Designation and grade of any staff supervised by the postholder: None</p> <p>Job purpose: The principal purpose of the job will be to generate and investigate the properties of 'smart' 3D printed porous and composite materials.</p> <p>Principal duties and responsibilities: The role will encompass all of the following, but the balance of duties and responsibilities will be determined in discussion with the post holder's line manager:</p> <p>1. Subject Area</p> <p>The aim of the project is to study 3D printed materials including porous materials and composite structures. This project will built on ongoing research with some tools and methods already developed. The successful applicant will be making use of the already existing tools and will be responsible for tasks such as:</p> <ol style="list-style-type: none"> 1. Generating 3D printed structure specimens 2. Mechanical testing and analysis of results 3. Material modelling 4. Experimental procedure and apparatus development 5. Academic writing for reports and journal papers 6. Result dissemination by presenting at conferences and meetings 7. Reviewing literature on the current state of the art on the field <p>2. Principal Duties</p> <ol style="list-style-type: none"> 1. Contribute to the research on 3D printed materials. This may involve, for example, undertaking and recording the outcome of experiments & field work, contributing to the development of questionnaires, conducting of surveys or literature/database searches as appropriate. 2. Contribute to any related research plans and carry out research activity in line with defined research plan objectives, documenting results and drafting reports of own or team's research. May be required to format script and prepare copies as required. 3. Identify and disseminate relevant information to the research team, providing advice on project progress as appropriate; communicating with internal and external contacts as necessary. 	

4. Act as a resource for staff and students, demonstrating/equipment/techniques/systems if required to small teaching or research teams.
5. Contribute to the analysis and interpretation of the results of research and generate ideas based on these outcomes.
6. Keep knowledge and skills up the required level by engaging in internal and externally based CPD.
7. Ensure that all resources used are correctly recorded and documented, files are kept up to date and data accuracy is maintained.
8. Attend and contribute to meetings as appropriate.
9. The postholder may be required to undertake any other duties which may reasonably be required as within the nature of the duties and responsibilities of the post as defined, subject to the proviso that normally any changes of a permanent nature shall be incorporated into the Job Description in specific terms.

Special requirements:

 All staff are expected to comply with the University's Health and Safety and Equal Opportunities policies in the performance of their duties.

Job description drawn up by	Petros Siegkas	21.11.2018
Approved for department by	CST HR	28.11.2018