



Job Description

Job Title:	Product Design Engineer
Post Number:	NP320XX
Department:	PDR
Location:	Llandaff Campus
Grade:	5AB
Salary:	£30,395 - £33,199
Tenure:	Permanent
Hours:	37

Role Summary:

PDR is a leading global design consultancy and applied research centre based in Cardiff. PDR works across a wide range of industries however the focus for this role will be on the design and development of consumer electronics and medical products.

The product designer role will work within the new product development (NPD) team to delivery design and development projects for a wide range of international clients.

The Product Designer role plays a key part within the NPD team ensuring projects are delivered at the required quality and on time.

Specifically work activity will encompass but not be limited to:

Principal Duties and Responsibilities:

1. Complete product design work as an integral part of the NPD team.
2. Develop 3D CAD and 2D manufacturing drawings using Solidworks.



3. Design and where appropriate build rigs and prototypes to support design activity using in house 3d printing facilities and workshop.
4. Participate in group ideation sessions.
5. Managing the production of prototypes both in house and by external suppliers.
6. Undertake design and engineering analysis and support activity including FEA (dynamic, non linear) on design projects within the department and as a dedicated service.
7. Development and detail product design and engineering from conceptual design through to detailed design and manufacturing implementation support as required across a broad spectrum of manufacturing processes and techniques.
8. Maintain and adhere to ISO 9001 procedures within PDR.
9. Ability to work on multiple projects at any one time will be required.
10. Ability to oversee and manage subcontractors and suppliers as required within a projects development.
11. Other duties that may be reasonably assigned by the Senior Product Design Consultant or Director.

Additional Information:

Standard Notification

These guidelines are provided to assist you in the performance of your contract. The university is a dynamic organisation; therefore changes may be required from time to time. Any changes will be made in consultation with the post-holder. The Summary of Duties and Responsibilities is not intended to be an exhaustive list of tasks performed. Other associated technical tasks are likely to be performed as directed by the line manager.

It is accepted that individual staff will have a specialist skills and knowledge base in relation to the role they have been appointed to. In addition to this, Cardiff Metropolitan University expects that all staff will conduct themselves in a professional and courteous manner at all times and have particular regard for their responsibilities under Cardiff Metropolitan University's Equalities, Financial, Environmental and Sustainability, Human Resources and Health and Safety policies and procedures.





Person Specification

Post: Product Design Engineer

Unit/School: PDR

***Key**

A - Application form

I - Interview

T/P - Test

** Portfolio / work examples may be used to support assessment

FACTORS	ESSENTIAL AND DESIRABLE CRITERIA	ASSESSED BY		
		A*	I*	T*
Education & Qualifications (Essential)	Honours Degree in Product Design / Industrial design or Engineering	✓		
Education & Qualifications (Desirable)	Masters Degree in Product Design / Industrial design or Engineering	✓		
Knowledge (Essential)	Knowledge of fundamental engineering theory in product design **	✓	✓	
	Knowledge of 3D CAD Modelling Systems**	✓	✓	
	Knowledge of manufacturing processes and assembly**	✓	✓	
	Knowledge of prototyping techniques and processes	✓	✓	
Knowledge (Desirable)	Good Solidworks 3D CAD skills**	✓	✓	



Skills and Abilities relating to role (Essential)	Effective organisational & interpersonal skills Ability to prioritise tasks, meet deadlines Highly self-motivated Ability to write and present complex subject matter Flexible work ethic with the ability to work both independently and as part of a team. Well developed communication skills at both a verbal and written level to both communicate work outcomes and promotion of the group's activities	✓ ✓	✓ ✓ ✓ ✓ ✓	
Other Requirements (Desirable)	Flexible in working hours Full UK driving licence Able to travel	✓ ✓		

