THE POST

College:	**College of Engineering, Mathematics and Physical Sciences**
Post:	**Additive Manufacturing Programme Lead**
Reference No:	**P63626**
Grade:	**G**
HERA:	**SRFEL**
Reporting To:	**Prof Oana Ghita**
Responsible For:	**Programme Lead for a Large Industrial Additive Manufacturing Project and CALM Lab manager**

Job Description

Main purpose of the job:

The successful applicant will be developing high performance polymers for powder bed processes and free form fabrication techniques (FFF). The position will include a lab management role as well. The successful candidate will be working closely with the CALM academic lead to successfully run of the CALM lab facility and will support with the health and safety procedures, training of new staff, planning of projects and use of equipment.

Main duties and accountabilities:

To undertake research as appropriate to the field of study including:

1) Acting as principal investigator on research projects;
2) Contribute to the development of research strategies for the College.
3) Define research objectives and questions.
4) Develop proposals for research projects which will make a significant impact by leading to an increase in knowledge and understanding and the discovery or development of new explanations, insights, concepts or processes.
5) Actively seek research funding and secure it as far as it is reasonably possible.
6) Generate new research approaches and identify, adapt, develop and use research methodologies and techniques appropriate to the type of research.
7) Review and synthesise the outcomes of research studies.
8) Interpret findings obtained from research projects and develop new insights, expanding, refining and testing hypotheses and ideas.
9) Contribute generally to the development of thought and practice in the field.

To contribute to teaching and learning programmes in the College and to supervise postgraduate research students.

To act as team leader and lab manager including:

1) Provide academic leadership to those working within research areas - for example, by co-ordinating the work of others to ensure that research projects are delivered effectively and to time, or organising the work of a team by agreeing objectives and work plans.
2) Contribute to the development of teams and individuals through the appraisal system and providing advice on personal development.

3) Act as line manager (eg of research teams).
4) Act as a personal mentor to peers and colleagues.
5) Manage the CALM lab, including maintenance, overseeing booking schedules and Health and Safety procedures required
6) Discussion and planning of projects for potential new users of the facility
7) Training and supervision of new users

4. To routinely communicate complex and conceptual ideas to those with limited knowledge as well as to peers using high level skills and a range of media and to present the results of scientific research to sponsors and at conferences.

5. To plan, co-ordinate and implement research programmes including:

- Managing the use of research resources and ensure that effective use is made of them;
- Helping to plan and implement commercial and consultancy activities;
- Planning and managing own consultancy assignments.

This job description summarises the main duties and accountabilities of the post and is not comprehensive: the post-holder may be required to undertake other duties of similar level and responsibility. Please visit the Human Resources website to view the Research Fellow role profiles.

Person Specification

Competency	**Essential**	**Desirable**
Attainments/Qualifications	Be an internationally recognised authority in the subject area. PhD or equivalent qualification / experience in the field of Additive Manufacturing.	
Skills and Understanding	Possess sufficient specialist knowledge in the discipline to develop research programmes and methodologies. Record of research output in nationally recognised publications.	
Prior Experience	Experience of managing research projects and research teams. Experience in a wide range of Additive Manufacturing technologies. Experience in using high temperature polymers (PAEKs) for laser sintering. Experience in operating EOSINT P800 system. Knowledge of laser and nanomaterials health and safety.	Experience of undergraduate and postgraduate teaching and supervision. Experience of acting as principal investigator on research projects. Successful in obtaining grant funding.
Behavioural Characteristics	Excellent written and verbal communication skills. Able to communicate complex and conceptual ideas to a range of groups.	

	Evidence of the ability to collaborate actively within the Institution and externally to complete research projects and advance thinking. Able to participate in and develop external networks. Able to identify sources of funding, generate income, obtain consultancy projects, or build relationships for future activities. Able to balance the pressures of research, administrative demands and competing deadlines.	

Terms & Conditions
Our Terms and Conditions of Employment can be viewed here.

Further Information
Please see our website for further information on working at the University of Exeter.