



## Job Description

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| <b>Position/Job Title:</b>           | <b>CfACTs Postdoctoral Research Fellow (Framestore 1) - Application of Machine Learning to Solve VFX Light Transport Situations (Fixed Term)</b> |
| <b>Ref:</b>                          | <b>FMC258/POSN101788</b>   |
| <b>Location/Building:</b>            | <b>Weymouth House, Talbot Campus</b>   |
| <b>Faculty/Professional Service:</b> | <b>Faculty of Media and Communication</b>  |
| <b>Group/Section:</b>                | <b>Computer Animation</b>  |
| <b>Duration if temporary:</b>        | <b>24 Months</b>   |
| <b>Normal hours per week:</b>        | <b>1.0 FTE</b><br><b>(Some flexibility will be required in order to ensure that key time scales and deadlines are met).</b>                      |
| <b>Grade:</b>                        | <b>6</b>   |
| <b>Accountable to:</b>               | <b>CfACTs Project Coordinator – Prof Jian Chang</b>  |

### **Job Purpose**

CfACTs is a Marie Skłodowska-Curie Action (MSCA) COFUND research centre operating from October 2020 to September 2025 within the National Centre for Computer Animation (NCCA) of Bournemouth University. The CfACTs Research Fellows will be full-time employees of BU and embark on a two-year programme of collaborative world leading digital creative technology research and training provided by CfACTs, and its Partner Organisations.

The CfACTs Research Fellows are expected to be seconded into one or more Partner Organisations for the majority of the two-year programme, with full academic support, jointly supervised by BU senior academics and industry experts. Receiving research training from BU, and industrial experience with UK creative technology companies (Partner Organisations), the Fellows will gain a cross-sectoral experience, delivering multi-disciplinary research focused on industrial applications related to BU's Strategic Investment Areas: Animation, Simulation and Visualisation.

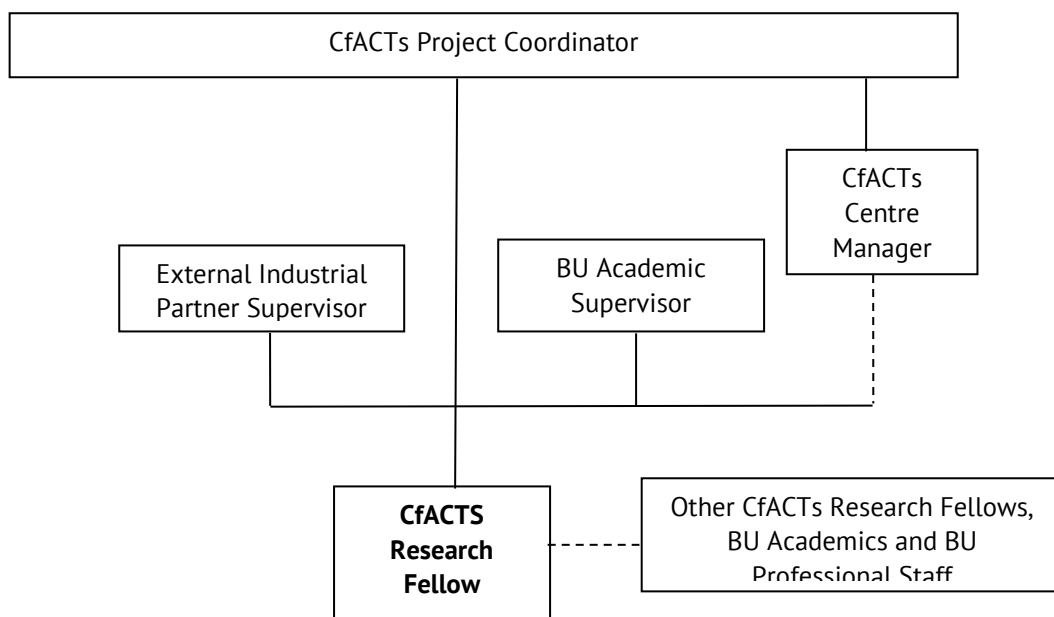
The CfACTs Research Fellows will research and develop new applied digital creative techniques, collaboratively with the Partner Organisations; and apply them cross-sectorally for various applications including, but not limited to, computer animation, visual effects (VFX), computer vision, visualisation, healthcare, retail and assistive technology. Each post holder will deliver the technical and scientific aspects of a proposed research project, to be agreed with the Centre and Partner Organisation prior to the project start.

### **Main Responsibilities**

1. To implement the research project specified in the BU / Partner Organisation CfACTs agreement and deliver the required Research & Development outcomes;
2. To undertake placement at a Partner Organisation and carry out the specified research collaboration on-site and off-site, as directed by the CfACTs Centre.
3. To take a significant co-ordinating role in the research project and make regular reports of the project progress in writing to the supervisory team.

4. To develop and update content for project communication by the Centre; (e.g. project website content) and conduct public engagement activities with Centre support.
5. To develop research outputs as codes, software, prototype and products, and carry out related experiments and tests.
6. To summarise research outputs into research papers and publish in peer-reviewed journals and conferences.
7. To disseminate research outputs, attend conferences, organise network activities with Centre support which will invite experts from both academia and industry to gain feedback and exchange ideas.
8. To develop post project research proposals and submit applications for external funding in collaboration with the supervisory team and industry partners.
9. To collaborate with other researchers and PGRs at Bournemouth University and the Partner Organisation, for related research development opportunities.
10. To actively engage with training provided by CfACTs and the Partner Organisation.
11. To carry out administrative duties and other relevant duties as required by Bournemouth University.

**Organisation Chart**



**Contacts**

The post holder will be expected to be self-motivated, be capable of managing their own time, and be able to work effectively on the research project with limited direction and supervision. This will include liaising with the research project team, technical and support staff within the university, and with staff at all levels within external organisations.

The postholder will be line managed by the CfACTs Project Coordinator Prof Jian Chang.

**Challenges**

This post requires excellent problem solving and research skills. The project requires subject knowledge for various applications including but not limited to, computer animation, visual effects (VFX), computer vision, visualisation, healthcare, retail or assistive technology. The individual must also possess excellent interpersonal and team working skills, and be able to produce clear, well-illustrated reports to publication standard.

## **Information Governance Responsibilities**

### **Data User**

- i. Comply with the associated data protection, information security, information management and information technology regulations, policies, processes and procedures.

### **Additional Information**

NB:

The purpose of the job description is to indicate the general level of responsibility and location of the position. The duties may vary from time to time without changing their general character or level of responsibility.

BU is an equal opportunities employer which values a diverse workforce. The post holder must at all times carry out their responsibilities with due regard to the University's Dignity, Diversity and Equality Policy Statement.

Our highly skilled and creative workforce is comprised of individuals drawn from a broad cross section of the globe, and who reflect a variety of backgrounds, talents, perspectives and experiences to build our global learning community. Through fused activity, the post holder must have an understanding of and commitment to promoting a global outlook.

All employees have an obligation to be aware of the University's Sustainability Policy, Climate and Ecological Crisis Action Plan, Travel Plan and associated documents, and to ensure that they carry out their day-to-day activities in an environmentally responsible manner and inspire students to do the same.

**November 2021**



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Position No: FMC258/POSN101788

Faculty / Service: Faculty of Media and Communication

Date: November 2021

| <b>SELECTION CRITERIA</b>   | <b>Essential / Desirable</b> |
|---|------------------------------|
| Knowledge (including experience & qualifications) (D in order of priority)  |                              |
| Hold a PhD degree in computer graphic, computer vision or a related discipline  | E                            |
| Relevant research experience  | E                            |
| Good knowledge and working experience about related subject of the research proposal  | E                            |
| Familiar with current developments in research with the ability to identify appropriate research options, methods and theoretical perspectives. | D                            |
| Experience of project management  | D                            |
| Research active with some evidence of publications and/or conference papers   | D                            |
| <b>Skills</b>   |                              |
| Research and writing skills to publishable standard   | E                            |
| Programming skills of Python, C and C++   | E                            |
| Familiar with modelling and animation software, like Maya, Houdini  | D                            |
| Excellent interpersonal skills  | D                            |
| Ability to work well both as a team member and on own initiative  | D                            |
| <b>Attributes</b>   |                              |
| Good communication skills (written and verbal)  | E                            |
| Self-motivated to achieve the requirements and demands of the role  | E                            |
| Self-reliant and pro-active   | E                            |
| Ability to communicate effectively with colleagues and externally as required   | E                            |
| Commitment to promoting and achieving the project targets and objectives of the CfACTS project  | E                            |
| Ability to work under pressure managing a variety of activities within tight timescales and budgets   | E                            |