

Research Fellow in Applied Software Engineering

UCL in collaboration with Mo-Sys Engineering Ltd
Permanent, full-time
London, SE10 0PA

About the Role:

UCL's Department of Computer Science (CS) is a top-ranked Computer Science Department in the UK. In the 2021 Research Excellence Framework (REF) evaluation, UCL Computer Science was ranked second in the UK for research power and first in England.

The UCL Department of Computer Science (UCL-CS: www.cs.ucl.ac.uk) & Centre for Medical Image Computing (CMIC: cmic.cs.ucl.ac.uk) are building a team of post-doctoral researchers to work on a pioneering Wellcome-Trust-funded programme into computational modelling and understanding of neurodegenerative disease.

The CU-MONDAI project uses computational modelling of neurodegenerative disease, machine learning, and big-data analysis to shed new light on the biological mechanisms that drive diseases like Alzheimer's disease and other causes of dementia: when and where it starts; how it spreads over the brain ("propagates"); how it varies among diseases, subtypes, and individuals; how risk factors influence mechanisms. The project will use Bayesian inference to quantify evidence for computational models of disease propagation informed by imaging data and associated patient information (genetics, lifestyle factors, comorbidities, etc.). The appointees will develop advances in disease progression modelling, brain connectivity mapping, deep learning, Bayesian inference, and translate these advances into neuroimaging studies and new knowledge about neurodegenerative disease biology.

The role will be funded until 31st December 2024 in the first instance.

What We're Looking For:

PhD or equivalent research experience. A track record of machine learning development and/or application, medical image computing, particularly neuroimage analysis, and/or applications to neuroimaging studies. Experience of and passion for computational modelling and machine learning, collaborative and translational research, and clinical applications.

This post is also open to newly qualified post-doctoral researchers, at the UCL Grade 7 salary scale who may not meet the following criteria (essential to be appointed at Grade 8)

Experience of supporting clinical usage of technical tools.

Experience of teaching/supervising students.

Experience of successful research-funding applications.

Salary scale for Grade 7 is £38,308 - £46,155

Salary scale for Grade 8 is £47,414 - £55,805

To Apply:

Please visit the [Redeployment Site](#) to apply.

About Us:

Mo-Sys is an award-winning, world-renowned manufacturer of virtual production solutions and camera robotics for film, HETV and broadcast, empowering high-quality AR, VR and virtual production.

We ship to broadcasters in 40+ countries to a customer base including BBC, Netflix, Fox, CNN, ESPN and Sky. Mo-Sys remote heads and robotics are used on many Hollywood blockbusters including Life of Pi, Birdman, Shape of Water, Tron, Source Code and Adjustment Bureau. We have also delivered boundary-pushing technology projects in close collaboration with clients like Red Bull Air Race and the film Gravity.

We pride ourselves on having endless creativity, a “can do” attitude and a friendly family feel to the company. We’re looking for people who want to make a difference and have a hardworking and collaborative attitude.

The above list of job duties is not exclusive or exhaustive and the post holder will be required to undertake such tasks as may reasonably be expected within the scope and grading of the post. Job descriptions should be regularly reviewed to ensure they are an accurate representation of the post (16/01/2023).