



Research Assistant

Insight SFI Research Centre for Data Analytics

Dublin City University

12 Month Fixed Term Contract

Overview

The Insight SFI Research Centre for Data Analytics (<http://www.insight-centre.org>) is an SFI funded Research Centre which brings together researchers from University College Dublin, NUI Galway, University College Cork, and Dublin City University, as well as other partner institutions, Trinity College Dublin (TCD), University of Limerick (UL), Maynooth University (MU) and Tyndall National Institute. It creates a critical mass of more than 400 researchers from Ireland's leading ICT clusters to carry out research on a new generation of data analytics technologies in a number of key application domain areas, such as Health and Human Performance, Smart Communities, Internet of Things, Enterprise and Services and Sustainability and Operations.

The €150m Centre is funded by Science Foundation Ireland and a wide range of industry and European Union partners. Insight's research focus encompasses a broad range of data analytics technologies from machine learning, decision analytics and social network analysis to linked data, recommender systems and the sensor web. Together, with more than 220 partner companies, Insight researchers are solving critical challenges in the areas of Connected Health and the Discovery Economy.

Project and Role Profile

The COVID-19 pandemic has had a dramatic impact on the aviation industry due to international travel restrictions and decreased demand among travellers. Currently, airports impose such measures as wearing of face masks and physical distancing to limit the risk of coronavirus for passengers. This project aims to create a real-time system that will use the airports existing CCTV infrastructure to monitor physical distancing, detect potential crowd build up, and better inform airport operations and decision making.

Principal Duties and Responsibilities

The Research Assistant will undertake duties and responsibilities as follows:

- Assist the Principal Investigators (PIs) in:
 - data acquisition and annotation;
 - the development of software and training of models;
 - the creation of prototypes and demonstrators;
 - writing reports and deliverables.
- Participate in Insight Centre activities.
- Carry out administrative work associated with the programme of research as necessary
- Other tasks relevant to successfully implementing the assigned research programme.

Qualifications and Experience

Minimum Criteria

You must hold a primary degree (NFQ Level 8) in a relevant discipline and should have at least have 1 year of relevant experience.

In addition, the successful candidate will ideally have:

- Excellent written and oral proficiency in English (essential).
- Excellent written and verbal communication skills.
- Proven ability to prioritize workload and work to strict deadlines.
- Ability to work in a team and to take responsibility to contribute to the overall success of the team.
- Strong problem solving abilities.
- Experience with machine learning (preferably deep learning)
- Experience with software development (Python)

Additional Information

The successful candidates will be offered opportunities for developing their own careers in a number of directions including conference/workshop travel, upskilling through Insight's continuous professional development in areas like research ethics and data privacy, student supervision and development and submission of their own research project proposals.

Mandatory Training

Post holders will be required to undertake the following mandatory training: Orientation, GDPR, and Compliance. Other training may need to be undertaken when required