**Machine Learning Developer & Scientist (KTP Associate)**

For a Knowledge Transfer Partnership between the:
**UNIVERSITY of HERTFORDSHIRE and MANOR PHARMACY GROUP**

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<tr>
<th>SCHOOL: School of Physics, Engineering and Computer Science</th>
<th>LOCATION: Unit 3, The Metro Centre, Ronsons Way, St Albans, AL4 9QT and University of Hertfordshire, Hatfield, AL10 9AB</th>
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<td>RESPONSIBLE TO: Principal Lecturer – School of Physics, Engineering and Computer Science</td>
<td>CONTRACT TYPE: Fixed for 25 months</td>
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<td>SPOT SALARY: £33,797 - £36,914 per annum depending on experience</td>
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**OVERALL PURPOSE OF THE ROLE:**

To develop and grow a health and lifestyle service aimed at preventing metabolic disorders (such as type 2 diabetes and hypertension), using a range of personalised inputs to generate dietary recommendations. An artificial intelligence (AI) & machine learning (ML) based system will be implemented for improved outcomes and to scale-up the business.

**BACKGROUND:**

Manor Pharmacy group opened in 1986 and by 2018 had grown to a successful, multi-award winning, independent group of nine pharmacies in Hertfordshire and Kent with a combined annual turnover of £10M. Most of the income comes from dispensing NHS prescriptions and added-value clinical services. Each branch has its own semi-autonomous pharmacy team with the support of a small head office team and a warehouse with a total of 90 employees.

The director recently (June 2019) strategically divested 5 of the branches, retaining the flagship Letchworth branch and the Kent group. The reduced group turnover is £3.8M and has a headcount of 80. In July 2019 Manor Pharmacy took a strategic decision to expand their services with a holistic approach to the prevention of metabolic diseases under the brand ProLongevity.

**SUMMARY OF ASSOCIATE ACTIVITIES AND MAIN OBJECTIVES:**

**Stage 1:** Understand the business, the sector and its requirements

**Stage 2:** Devise a system structure automating the current manual system process in order to increase the efficiency and scale of the business

**Stage 3:** Mobile Application System Implementation to automate the current manual system

**Stage 4:** System Testing and User Acceptance Testing

**Stage 5:** Web Application System Implementation

**Stage 6:** Extend system scalability: Implement the design to extend system scalability to produce a robust backend that scales well through periods of significant user growth – moving system to the cloud.

**Stage 7:** Integrate intelligence into system structure design

**Stage 8:** Use data mining techniques to analyse the data gathered from the legacy manual process to generate pattern recognition algorithms

**Stage 9:** Integrate the AI into the ProLongevity electronic system
Stage 10: Roll-out a fully functioning system

Stage 11: Business development and commercialisation

Stage 12: Embedding and disseminating the knowledge

REPORTING AND MANAGEMENT:

The Associate will be employed by the University of Hertfordshire on a 25-month contract and will carry out duties in Hertfordshire at the University in Hatfield and at Manor Pharmacy Group in St Albans, depending on which aspect of the project is being worked on at the time.

Hours of work, in line with Manor Pharmacy Group are: 09:00 to 17:00 Monday to Friday (with 60 minutes unpaid lunch) total 35 hours per week, however some flexibility can be applied for the ideal candidate.

Holiday, in line with Manor Pharmacy Group: 28 days per year including bank holidays; pro-rata in first year according to start date.

The Associate will report to and be managed by their Line Manager at the University with whom they will have regular contact. Expert supervision will be provided by the School of Physics, Engineering and Computer Science. Project meetings will be held on a monthly basis and chaired by the Associate.

Manor Pharmacy Group will appoint a local company supervisor for project supervision whilst working at their St Albans office.

High level programme review ‘Local Management Committee’ (LMC) meetings will be held every 4 months where the Associate will provide a formal presentation of progress.

The Associate will be allocated 10% of their time supported by a budget of £2,000 per annum for the purpose of technical, professional and personal development

Informal Contact Details: Helen Podmore, Tel: 01707 285758, email: ktp@herts.ac.uk

This document outlines the duties required, for the time being, of the post entitled Machine Learning Developer & Scientist (KTP Associate) to indicate the level of responsibility. It is not intended to be a comprehensive or inclusive list and the line manager may vary duties, from time to time, which do not change the general character of the job or the level of responsibility entailed.

ADDITIONAL INFORMATION

Closing Date: 08 September 2020
Interview date: To be advised
Quote reference: 029275