KNOWLEDGE TRANSFER PARTNERSHIPS
KTP 011055

Fortinet and Edinburgh Napier University
Project Introduction and Details

FURTHER PARTICULARS

Vacancy Ref No: **7498**
Salary: **£32-39K**
Duration: 22 Months
Location: Fortinet, Edinburgh Napier University

Introduction to Knowledge Transfer Partnerships

Mission
"To strengthen the competitiveness and wealth creation of the UK by the stimulation of innovation in industry through collaborative partnerships between the science, engineering and technology base and industry"

Objectives of every Knowledge Transfer Partnership
• to facilitate the transfer of knowledge and the spread of technical and business skills through an innovation project .
• to provide company-based training for the most able graduates in order to enhance their business and specialist skills.
• to stimulate and enhance business relevant research and training undertaken by the knowledge base (universities & public funded research organizations.

Background

'Knowledge Transfer Partnerships' are an extension of the highly regarded and long established TCS scheme, which is funded by Innovate UK with 15 other funding organisations. A 'Knowledge Transfer Partnership' enables companies of any size to access additional scientific, engineering or management knowledge and expertise from universities and research organisations and to import new techniques and technologies into their businesses to:

- Improve existing products
- Develop new products
- Streamline a manufacturing process;
- Improve logistics processes; or
- Strengthen strategic marketing capabilities

Around 900 companies - of all sizes and in a very wide range of sectors - are currently participating in Knowledge Transfer Partnerships. It supports the training of about 1000 graduates working on these projects and involves almost every UK University.

Fortinet

Fortinet UK (formerly Zonefox) is concerned with monitoring & reporting on the security of business systems & data. With its award winning technology, Fortinet markets itself

as operating as a User & Entity Behaviour Analytics platform with a specific focus on "insider threat" - accidental or malicious sharing of business critical data, intellectual property, introduction of malware and anomalous behaviours. Its software provides the visibility around business data to allow companies to protect sensitive information.

Fortinet are really proud of the incredible teamwork that goes into everything that they do. The company finds the smartest people and empower them to succeed in what they do best.

Used by some of the world's smartest, most innovative businesses, Fortinet builds software that secures data against the advancing threat landscape, enabling organizations around the world to better understand user behaviour, make smarter security decisions, and deliver a stronger, more efficient security posture.

Edinburgh Napier University

The School of Computing is a member of a number of software alliance schemes which allows us to offer students of the school a large range of free software. Membership currently includes the Microsoft Academic Alliance (MSAA), the VMWare Academic Program (VMAP) and the iPhone Developer University Program. We are one of only two NVIDIA CUDA Teaching Centres in Scotland, a Cisco Academy Support Centre and an Encase Partner. Students benefit through access to the latest hardware, software and expertise.

The School has a long established research group in Information Visualization with a focus on applications in a range of domains including biology and security. The School of Computing also hosts the Cyber Academy which is a leading independent and impartial source of skills and knowledge on cyber security, supporting Scotland's businesses and communities to be secure and successful online. Working with a range of companies and organisations on understanding and mitigating risks, and on designing effective measures for prevention, detection, investigation and incident response.

Employment Details

The successful candidate (KTP Associate) will be employed by the University on a 22 months contract, and will be based full time at Fortinet based in modern office accommodation in the centre of Edinburgh. Although both the academic and industrial supervisors supervise the project on which the Associate is working, the Associate will need to have the capacity to operate and manage the project on a day-to-day basis. Therefore strong interpersonal skills, self-motivation, and the ability to plan and organise time are required.

The Knowledge Transfer Partnership

The project will optimise the Fortinet product through the development and incorporation of effective information visualisation tools for generating insight through visual exploration and discovery of relationships in customers' business data.

The Project objectives are as follows:

1. Review of Company Operations and Security Analytics Market (Month1)
   - SWOT analysis of company's position in global market
2. Review of Relevant Research Techniques in Security Visualisation
   - Report detailing potential visualisation techniques evaluated against Fortinet data characteristics and user requirements
3. User requirement Gathering and Specification
   - User specification for visualisation tools
   - Design Specification of the Visual Analytics system to be developed.
4. Prototype 1 design, development and evaluation
   - Prototype 1.1 with initial functionality fully implemented and evaluated
   - Prototype 1.2 with additional functionality fully implemented and evaluated
   - :Prototype 1.3 with further additional functionality fully implemented and evaluated
   - Interactive Visualisation tool supporting the visual exploration, detection and presentation of potential IP infringements for a customer's business.
   - Development of full Prototype 1 fully documented and staff trained to embed full understanding of visualization techniques used and their application
5. Development of Prototype 2
   - Interactive Visualisation tool supporting the visual exploration, detection and presentation of potential IP infringements for groups of businesses
   - Development of full Prototype 2 fully documented and staff trained to embed full understanding of visualization techniques used and their application
6. Final Consolidation and Commercialisation
   - Summative evaluation report determining the benefits of the new combined tool (Prototype1 + Prototype 2) for customers which can form the basis of a sales campaign.
   - Complete Visualisation system fully incorporated into Fortinet product and fully tested
   - Marketing presentation and associated material
   - Customer user manual updated
   - Industry presentations and visits to potential clients
   - Dissemination/Training presentation for all relevant areas of staff
   - Exploitation will occur from stage 5 onwards are prototypes are fully integrated into company product

The position carries considerable responsibility. The Associate will report directly to the senior management team, therefore good presentation and communication skills are also desirable. Some of the projects will involve working with clients and customers of the company in various locations, which will require strong interpersonal skills.

In return, the position offers the Associate the following benefits:

- a planned programme of training courses
- the support and resources of the University
- a challenging and rewarding job, with real responsibility
- the potential for good career development with the company at the end of the scheme
- the possibility of registering for a higher degree with the University
- the opportunity to make important and tangible improvements in a small but dynamic company
- competitive pay and working conditions

Informal enquiries to:

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