



Security Research Intern at BT in UK

Unique ID#: F0006

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1. Internship details

Company Name: **BT**

Position Title: **Security Research Intern**

City: **Ipswich**

Country: **UK**

Internship Term: **Summer or Fall 2018**

Number of Position Available: **3**

Language Requirements: **English**

Company Address: **PP5, Floor 5, Orion Building, Adastral Park, Ipswich, Suffolk, IP5**

Internship Hours: **Part-Time**

Compensation: **Unpaid***

***This internship is to be done as a part of your study abroad course curriculum. Check with your university study abroad office prior to applying for this position to make sure you can get academic credit for this internship through its study abroad programme.**

1.1. About us

BT is one of the world's leading communications services companies, serving the needs of customers in the UK and across over 180 countries worldwide. Our main activities are the provision of fixed-line services, broadband, mobile and TV products and services as well as managed networked IT services. For further details see <http://www.bt.com/>.

BT's main research and development centre is in Adastral Park in Suffolk, UK, and is home to over 3,700 of BT's top scientists, engineers and business people. Our employees include many who are world leaders in their specialist fields, working at the forefront of new technologies and standards development in areas such as broadband applications and services, IP and data networks, IT, mobility and converged services, network design and management, and business applications and services. BT provides research, development and consulting services for BT, developing innovative technological ideas and solutions that translate into practical and marketable solutions for the business. BT's research labs played a leading role in the development of global communications standards and BT inherit from them a science and engineering base acknowledged widely as second to none.

1.2. Internship description

- **Deep learning for Cyber defence:** This project is focussed on application of latest deep learning techniques for identification of anomalies in network data. The internship require demonstration of how open source tools can be used to learn normal network behaviour and then highlight deviations from normal behaviour using visualisation techniques.
- **Blockchain Use case development:** In this project we aim to develop a simple Blockchain implementation to demonstrate the benefits and shortcomings of Blockchain technology. The internship will make recommendations about where Blockchain technology adds value to a corporate application domain and how to overcome the current limitations of the technology
- **Malware propagation modelling and prediction:** The project is focussed on using modelling and simulation techniques to understand how modern malware propagates within IT networks. The project will develop a model and a simulation environment for demonstrating the outbreak of malware in a corporate network

1.3. Responsibilities

Outlined in the project description

1.4. Qualifications

Masters level or above student in one of the following areas:

- Computer Science

1.5. Benefits of Interning with Us

- Work experience with world class researchers
- Building knowledge in cybersecurity