BRITISH
TRANSPORT
POLICE

;Job Description Template

A Post Details	
Job Title: Drone Insight Analyst	Grade: B001
Department **National Disruption Fusion Unit (NDFU)**	Division: Select Division
Reports to: FUSION TEAM LEADER	Contract Type(Please complete):Temporary
Level of Vetting (Please complete):**Security Check**	Numbers in Post: 1

B Purpose of the Post
The Drone Insight Analyst is a multi-diciplinary expert with a broad skill set that spans classical intelligence and performance analysis as well as data analytics. The purpose of the post is to design, create and deliver bespokw products to various internal and internal stakeholders on the Drone Pilot Project. The Drone Insight Analyst will utilise a broad range of analytical techniques and technologies to deliver tactical and strategic insight in order to measure the impact and potential benefit of drone deployments as a means of reducing police-related disruption on the railway network, improve safety and prevent major disruption events before they occur (incidents of trespass, suicide, level crossing misuse, cable theft, vandalism).

C Dimensions of the Post
Financial – Direct or Non-Direct
Staff Responsibilities – Direct or Non-Direct
Staff Responsibilities – None Direct
• **Non-Direct –** Influence over the creation of analytical products that will guide both British Transport Police (BTP) resource deployments (with particular focus on drone technology) as well as Network Rail (NR) asset changes/upgrades (which will have a financial implication for the industry)
• **Staff Responsibilities – Direct or Non-Direct**
• **Direct** – none

D Principal Accountabilities
• **Supporting the design, development, implementation and maintenance of drone-specific Route Crime analytical products for both BTP and NR, identifying practical recommendations for consideration and implementation by pan-industry stakeholders**
• **Deliver the NDFU data strategy which includes the performance and intelligence reporting cycle for national disruption reporting as detailed in Service Level Agreement, increasing automation within the process where possible**
• **Analyse a range of complex data sets from NR, Railway Safety Standards Board (RSSB), Train Operating Companies and BTP to develop strategic insights and recommendations based on the best available evidence**

- **Analyse role-specific technical data generated by drones (deployment times, distance travelled, impact of drone deployment on Route Crime network delay metrics)**
- **Responsible for dashboard design and maintenance to enable customer self-service through all available softwares (Microsoft Power BI, Buisiness Objects)**
- **Manage quantitative and qualitative work alone, as part of a team as well as with other departments (both internal and external) and present work at varying levels across both BTP and NR**
- **Assist in the identification and tracking of best practice across all stakeholder organisations to support continuous improvement and present findings at relevant stakeholder meetings**
- **Identify potential future risks relating to railway safety through predictive analysis and constant horizon scanning to both protect the travelling public and safeguard BTP and NR against risk**
- **Identify strategic issues of organisational importance relating to information gaps and data transfer across organisations or department, and make recommendations based on analysis to senior officers, NR Senior Management and railway industry partners**
- **Be a knowledge expert for police related disruption and communicate analytical work to senior internal and external stakeholders through tailored presentations and be prepared to act as a subject advisor to stakeholders**
- **Deputise for the Fusion Team Leader as and when required and provide analytical training to new members of staff**

E Decision Making

Influence over the deployment of the drone technical asset. Responsible for ensuring analysis is carried out and presented to a high standard and delivered in a timely fashion. Ensuring recommendations are made to decision makers making to improve resource allocation and tactical or strategic decision making (with particular emphasis on drone deployment).

Significant say in decisions

Required to make contribution to the design, construction and final content of the Force Strategic Assessment and the setting of the Force priorities in the Control Strategy as well as NDFU core products as detailed in Service Level Agreement.

F Contact with Others

Internal

- Chief Officers and Heads of Department
- BTP areas aligned to the broad 'safeguarding the railway portfolio' including the BTP Central Disruption Team, the BTP Safeguarding and Vulnerability Unit and the Designing Out Crime Unit (DOCU)
- BTP Embedded Disruption Officers, all Police Officers and police staff

External

- NR

- Railway Safety Standards Board (RSSB)
- Various Train Operating Companies (TOC's)
- Samaritans and other passenger support organisations
- **Land Sheriffs or other private security companies**

Supervision

- The post holder will report directly to the Fusion Team Leader

G Essential Criteria

Qualifications and Training:

- **educated to degree level in a relevant discipline or similar work experience**
- **A further qualification in analysis (NIAT)**
- **Use of visualization systems including Microsoft Power BI, Business Objects etc.**

Experience:

- **Experience of creating complex reports (both alone or as part of a team)**
- **Evidenced research and analytical experience preferably gained through work experience (educational experience is also acceptable)**
- **Experience in using all Microsoft Office applications**
- **Experience in managing large data sets for the purpose of research and analysis**

Skills:

- **Strong IT skills including a working knowledge of all Microsoft Office applications, Power BI, Business Objects, Mapinfo, ArcGIS, R and Python programming**
- **Proven excellent qualitative and quantitative research skills and the ability to conduct mixed methods research**
- **Proven problem solving skills and the ability to think creatively to develop innovative solutions to problems**
- **The ability to professionaly interact with internal and external stakeholders**
- **Excellent communication and interpersonal skills with the ability to work both unsupervised and as part of a team**
- **The proven ability to aggregate and summarise complex data sets into an easy to understand format**
- **Excellent report writing skills (including copy editing and proof-reading)**
- **The ability to understand and respond to industry and stakeholder developments quickly and accurately**
- **Time management and work pritorisation – the post carries a demanding work load and successful candidates must be able to evidence effective time management**

Knowledge:

- **Knowledge of railway industry, NR and the Schedule 8 Framework**
- **Knowledge of railway disruption from both an industry and police perspective**

Desirable criteria:

Qualifications and Training:

- A postgraduate qualification in a relevant discipline
- Formal training in specific analytical techniques such as communications data analysis, strategic analysis or major incident analysis
- Data science qualification or equivalent training

Experience:

- Experience in conducting high level analysis (qualitative, quantitative and mixed methods) and horizon scanning in a police, government or railway industry setting
- Experience of conducting research and analysis using commercially sensitive data

Skills:

- Dashboard design and maintenance in Microsoft Power BI
- Advanced data utilisation techniques
- Advanced Excel
- Advanced mapping (Mapinfo and ArcGIS)
- Statistics (using Excel or R/R Studio)
- I2 Analyst Notebook
- Data science techniques (automation, big-data experience)
- Spatial data science techniques (multivariate or bivariate k means clustering, space/time pattern mining)

Knowledge:

- Knowledge of wider social, political and economic factors affecting the rail industry and the BTP

H Additional Information

The NDFU are a national, pan-industry unit. Therefore, there is requirement to travel to both BTP and NR sites across the country on a regular basis (Covid19 permitting)

For Panel to complete only:

Line Manager Approval: (this is only signed off when the line manager has approved the final version)

Panel Approval: (this will only be signed off once the job has gone through the Job Evaluation Panel)

Date: Click or tap to enter a date.

Email the Job Evaluation submission form together with supporting documentation (organisational charts, job descriptions) to **People & Culture Policy & Reward inbox**

You will be advised of a panel date following receipt of the submission