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Masters Dissertation Scheme Project form



Company / Organisation Name:	West Midlands Fire Service
Team / Department:	Organisational Intelligence
Address:	

Provisional title for project:

Investigating the nexus of community space, emergency fire vehicles, network infrastructure, season and effective response.

Short description of the problem that would be addressed by the project:

We believe the intersection of city infrastructure, communities, environments, hazards and our response vehicles likely contains intelligence that could improve our performance and understanding of what our future challenges may be. We also suspect that there may be seasonal or temporal changes in that intersection space.

So, we know what types vehicles we send to emergencies, and to what type of incident they go to. We know how they move through space, and we know some of the characteristics of that space. We know when this happens, but we suspect there is more hidden in the data.

Short description of the data sources that would be used in the project, and how they would be used

AVLS Data – GPS data for each appliance, giving location, speed, time.
Mobilisation data – details of the incident type.
Callsign data – giving status of vehicle by time.

Would any work by the student need to be carried out on site at the Company with the exception of supervisory meetings?

Not necessary, but very welcome both on fire stations, and at HQ.

Any issues of data confidentiality and IPR that would need to be resolved

Some anonymisation required on incident data, but we could potentially do that at this end.

Essential skills

GIS / Data Analysis

Desirable skills

Social science / interview / questionnaire analysis

Preferred degree programmes (if any)

Not specified, but clearly a GIS / data background would be beneficial.

Preferred selection method

Web meeting discussion.

Support and training offered by the company

Support, desk at HQ if required, visits to fire stations, working from fire stations if required.

Financial assistance offered by the company

£500 stipend

Any other comments

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If there are any questions about the 2023 programme, please contact Richard Arnold at richard.arnold@ucl.ac.uk

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