

Role:	Modelling Officer
Directorate:	Strategy
Salary Band:	Circa £45,000 per annum
Contract:	Two Year Fixed-term / Secondment (Public Sector Bodies Only)
Purpose:	Work with Transport for the North's (TfN) partners to specify and manage the delivery of an agreed programme of modelling and analysis to support the development of TfN strategy, schemes and initiatives.
Reports to:	Head of Strategic Analysis & Appraisal

	Key Role Outputs (KROs) <i>these set out what must be achieved for the post holder to be successful in the role</i>	Key Actions <i>These set out how the KROs will be achieved – the activities required.</i>
1	Undertake strategic analysis to inform TfN policy and strategy development	<ul style="list-style-type: none"> • Develop, maintain and apply a range of future economic scenarios and analysis tools to support strategy and scheme development. • Ensure research techniques are fit for purpose and meet best practice standards.
2	Develop TfN's strategic modelling capacity	<ul style="list-style-type: none"> • Ensure that fit for purpose strategic modelling tools and datasets are available for strategy and scheme development. • Work with national agencies to align strategic model development programmes for the north of England • Undertake audits of transport model outputs.
3	Manage application of strategic transport models to support strategy and scheme development	<ul style="list-style-type: none"> • Manage the application of the models to support scheme assessment to outline business case standard. • Engage with project managers across TfN to ensure consistent application of transport models to support business case development. • Support the development and application of multi-modal variable demand modelling tools as part of major scheme business case submissions. • Manage the use of framework contracts with TfN's modeling consultants.

4	Scrutiny of Value for money assessments	<ul style="list-style-type: none"> • Provide guidance and support on applying the Appraisal Framework, including management of consultants. • Challenge and scrutinise Value for Money assessments developed by other and provide recommendations to Senior Officers.
5	Integrated approach to modelling and analysis	<ul style="list-style-type: none"> • Work with the other members of the modelling & analysis team to ensure an integrated approach is taken between transport modeling and analysis of the wider impacts of transport. • Ensure that transport models data and outputs are made available for transport appraisal and wider analysis. • Provide information for wider analysis of the economic, social and environmental impacts of transport proposals.
6	Corporate capabilities on modelling	<ul style="list-style-type: none"> • Keep abreast of technical developments and guidelines to ensure TfN's modelling is fit-for-purpose. • Continually assess current skills and tools, and where appropriate ensure that new capabilities are acquired. • Share new skills and knowledge across the directorate.
7	Contribute to TfN projects and work-streams	<ul style="list-style-type: none"> • Contribute to the wider strategy development work of TfN.

	Compulsory Outputs (COs) <i>these set out what must be achieved for the post holder to be successful in the role</i>	Key Actions <i>These set out how the COs will be achieved – the activities required.</i>
C1.	Ensure you comply with all applicable organisational legislation and policy:	<ul style="list-style-type: none"> • TfGM/TfN's Safety Management System (In particular section SMS 201 Roles and Responsibilities) • Dignity at Work policy; • Risk management • TfGM/TfN policies and procedures • Equality and diversity legislation • TfGM/TfN's Vision & Values • Act in accordance with TfGM's/TfN's behaviours and competencies
C2.	Other duties and responsibilities	<ul style="list-style-type: none"> • Deal with any other tasks that may be assigned by TfN Senior Management Team.

Key Interdependencies

Key Contacts	<ul style="list-style-type: none"> • Department for Transport • National Agencies including HS2 Ltd, Highways England, Network Rail and Office of Road and Rail • Officers in TfN partner bodies across the North • TfN strategy leads and transport planners
Direct reports	None
Budget responsibility	Responsibility for the monitoring of project specific budgets.
Location	Flexible across the North of England, but with a requirement to regularly work from our offices in Manchester.

Modelling Officer <i>(Knowledge, skills and experience required at selection stage)</i>	
E Essential Experience:	
E1	A strong track record of developing modelling and analytical approaches in appraisal
E2	Experience in successfully planning and managing projects, programmes of work and of prioritising workload
E3	Experience of business case development for public policy interventions, particularly producing analysis to underpin Strategic and Economic Cases for major transformational schemes
E4	Proven experience of project and study delivery including management of consultants
E5	Prepare clear and concise reports and presentations for a variety of audiences
E6	Effective communications with clients/users of modelling and analysis outputs
D Desirable Experience:	
D1	Experience of engaging with senior officers regarding modelling and value for money appraisals, including external organisations and/or stakeholders
D2	Experience of working with agencies such as Highway England, Network Rail or HS2 Ltd.
D3	Experience of conducting social and environmental impact appraisals
D4	Proven experience of transport modelling and analysis, such as use of strategic transport models, undertaking cost-benefit analysis, patronage and revenue analysis, developing travel demand scenarios and / or land use modelling
EQ Essential Qualifications:	
EQ1	Educated to degree level or equivalent in a relevant discipline
EQ2	Membership of a relevant professional body, e.g. transport planning
DQ Desirable Qualifications:	
DQ1	Higher degree in related subject e.g. transport planning, transport modelling, geography or economics
EA Essential Attributes:	
EA1	Understanding of national and regional policy context
EA2	Ability to work in a multi-stakeholder / partner environment
EA3	Ability to see the bigger picture and not to become distracted by detail
EA4	Ability to assess new information and determine its relevance and importance
EA5	Ability to objectively evaluate options which may be both complex and technical
EA6	Ability to prepare clear, concise and well-structured reports for a variety of audiences
EA7	Able to communicate efficiently to a variety of audiences clearly and concisely together with excellent listening skills
DA Desirable Attributes:	

DA1	Proven negotiation skills
DA2	Knowledge of the statutory local and regional transport planning processes