Role Definition

Job title: Data Scientist
Reporting to: Reporting to Manager on a day-to-day basis, and ultimately to the Senior Partner.

The Urban Design Group is an interdisciplinary team, covering a wide range of projects from strategic planning to urban design and landscape architecture. In the pursuit of design excellence, we encourage an active dialogue between different disciplines, which is why our team comprises several experts - from planning to landscape architecture, spatial design and social anthropology. We all come together to create unique environments and spaces with a social focus, whose positive influence extends beyond the project brief.

Our projects are situated across the globe, and we believe it is important to understand the specific planning and development context early on, so our designs respond to the stated planning policy and aspirations - whether we are looking at an individual building, a masterplan or policy making at a strategic scale.

We are looking to recruit a Data Scientist to join our team in London that will leverage geospatial data, research and technology to help support and inform urban design.

Responsibilities

- Develop and maintain bespoke *web and desktop geospatial software solutions* for master planning and urban design
- Identify *geo-spatial data sources* and critically assess their applicability for urban research, master planning, and design.
- Identify *opportunities within existing (academic) research* for concrete applications that inform urban design, linking science with design.
- Perform *analysis and mapping* of data to input into the design process, creating a better understanding of project context, opportunities and impact
- Develop *data pipelines and predictive models* that automate data processes and generate design performance insight
- Assist design teams in GIS and geospatial data analysis
- Equity, diversity & inclusion (EDI) is a core priority. To support and champion the embedding of this focus as a collective workforce responsibility, EDI should be integrated, where relevant, into all workstreams.
- Thorough knowledge of and compliance with F+P procedures and standards

Qualities and Skills required

- Able to demonstrate ability to undertake the above responsibilities
- Legally able to work in the country in which the position is based
- Strong programming skills in Python and geospatial libraries including GeoPandas, Rasterio and Shapely.
- Proficient with SQL and experience with DB query clients
- Good knowledge of GIS concepts, data, processes and analyses
- Excellent knowledge on spatial statistics to have full control on all stages of ML pipelines (preprocessing, feature engineering, training and evaluation).
- Excellent organisational skills
- Able to manage sensitive and sometimes confidential information
- Self-motivated and able to take responsibility
- Able to demonstrate initiative and a proactive approach to daily tasks

- Good interpersonal skills and able to work independently and as part of an effective team
- Flexible attitude
- Able to build good relationships at all levels, internally and externally
- Resilient to cope with conflicting demands, able to prioritise duties and work effectively under pressure [while remaining calm and professional at all times]
- Able to work as part of an effective team assisting and supporting team members

Desirable

- Familiarity with ESRI technology (ESRI ArcGIS API for JavaScript, ESRI Leaflet, ArcGIS Runtime SDK for .Net)
- Understanding and experience with data visualisation techniques

This description reflects the core activities of the role but is not intended to be all-inclusive and other duties within the group/department may be required in addition to changes in the emphasis of duties as required from time to time. There is a requirement for the post holder to recognise this and adopt a flexible approach to work. Job descriptions will be reviewed regularly and where necessary revised in accordance with organisational needs. Any major changes will be discussed with the post holder.