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| **Job Description** |
| **Post title** | GIS & Remote Sensing Officer |
| **JE Reference No** | N11080 |
| **Grade** | 9 |
| **Service** | Neighbourhoods & Climate Change |
| **Service Area** | Environment – North Pennines AONB Partnership |
| **Reporting to** | Peatland Programme Manager |
| **Location** | Your normal place of work will be North Pennines AONB Partnership Office, Stanhope but you may be required to work at any Council workplace within County Durham. |
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| **DBS** | This post **is not** subject to a disclosure. |
| **Flexitime** | This post **is** eligible for flexitime. |
| **Politically restricted** | This post **is not** designated as a politically restricted post in accordance with the requirements of Section 1(5) of the Local Government and Housing Act 1989 and by regulations made from time to time by the Secretary of State. |

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| **Description of role** |

The post-holder work on the North Pennines AONB Partnership’s Peatland Programme team and will take charge of all geospatial applications across the programme. The post holder will have in depth knowledge of GIS, be able to develop a range of innovative and novel techniques for monitoring and restoration of degraded blanket bog and be familiar with remote sensing techniques.

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| **Duties and responsibilities** |

* The emphasis of the role will be on working with the Peatland Programme’s Field Staff to develop the application of geospatial technology (including GIS, GPS, UAV) to compliment an ambitious programme of peatland restoration projects in the North Pennines.
* Use a range of commercial and open source GIS and remote sensing software to develop a range of methodologies and techniques to support and enhance blanket bog monitoring and restoration
* Maintain the AONB Partnership’s 2 UAVs, ensuring that existing and new protocols are adhered to by pilots and that our Operations Manual is current and covers all of the UK Civil Aviation Authorities rules and regulations.
* Update and maintain the Peatland Programme’s database of restoration and monitoring work and develop new databases for future data.
* Develop new techniques to collect and process peatland survey data to streamline the process and produce accurate work specifications.
* Provide GIS and geospatial support to the North Pennines AONB Partnership team.

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| **Organisational responsibilities** |

* **Values and behaviours**

To demonstrate and be a role model for the council’s values and behaviours to promote and encourage positive behaviours, enhancing the quality and integrity of the services we provide.

* **Smarter working, transformation and design principles**

To seek new and innovative ideas to work smarter, irrespective of job role, and to be creative, innovative and empowered. Understand the operational impact of transformational change and service design principles to support new ways of working and to meet customer needs.

* **Communication**

To communicate effectively with our customers, managers, peers and partners and to work collaboratively to provide the best possible public service. Communication between teams, services and partner organisations is imperative in providing the best possible service to our public.

* **Health, Safety and Wellbeing**

To take responsibility for health, safety and wellbeing in accordance with the council’s Health and Safety policy and procedures.

* **Equality and diversity**

To promote a society that gives everyone an equal chance to learn, work and live, free from discrimination and prejudice and ensure our commitment is put into practice. All employees are responsible for eliminating unfair and unlawful discrimination in everything that they do.

* **Confidentiality**

To work in a way that does not divulge personal and/or confidential information and follow the council’s policies and procedures in relation to data protection and security of information.

* **Climate Change**

To contribute to our corporate responsibility in relation to climate change by considering and limiting the carbon impact of activities during the course of your work, wherever possible.

* **Performance management**

To promote a culture whereby performance management is ingrained and the highest of standards and performance are achieved by all. Contribute to the council’s Performance and Development Review processes to ensure continuous learning and improvement and to increase organisational performance.

* **Quality assurance (for applicable posts)**

To set, monitor and evaluate standards at individual, team and service level so that the highest standards of service are delivered and maintained. Use data, where appropriate, to enhance the quality of service provision and support decision making processes.

* **Management and leadership (for applicable posts)**

To provide vision and leadership to inspire and empower all employees so they can reach their full potential and contribute to the council’s values and behaviours. Managers and leaders must engage in personal development to ensure they are equipped to lead transformational change; always searching for better ways to do things differently to meet organisational changes and service priorities.

* **Financial management (for applicable posts)**

To manage a designated budget, ensuring that the service achieves value for money in all circumstances through the monitoring of expenditure and the early identification of any financial irregularity.

*The above is not exhaustive and the post holder will be expected to undertake any duties which may reasonably fall within the level of responsibility and the competence of the post as directed by your manager.*

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| Person specification |
|  | Essential | Desirable |
| Qualifications | * Educated to degree level in a related field or equivalent.
 | * Licenced UAV Pilot
* Degree level qualification in GIS or similar subject
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| Experience | * Using a range of GIS software including ESRI ArcGIS & QGIS
* Practical application and analysis of remotely sensed imagery (aerial, satellite and UAV) including skills in photogrammetric software.
* Setting up data management protocols and writing technical documentation
* Problem solving, technical and maintenance skills
* Experience of working within a multi-disciplinary team
 | * Operating multirotor UAVs including CAA licences and approvals.
* Use of high-tech equipment (GPS receivers, multispectral cameras, UAVs)
* Practical use of GPS hardware
* Programming for automation of repetitive tasks (Python and ModelBuilder and/or R)
* Contract management
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| Skills & Knowledge | * Expert knowledge of GIS concepts and techniques
* Interpretation of aerial imagery
* Knowledge of the fundamentals of remote sensing and it’s analysis
* Knowledge of the principles of photogrammetric processing
* Fluent in the use of Microsoft Office
* Report writing
* Ability to organise / prioritise a heavy workload and work under pressure of deadlines
 | * Knowledge of CAA rules and regulations regarding UAV operations in the UK and the necessary steps to gain and maintain CAA flight approvals.
* Knowledge of peatland habitats including species identification, hydrology, geomorphology, restoration techniques and ecological survey and monitoring
* Understanding of satellite telemetry systems and their potential application to peatland monitoring
* Presentation skills, verbal and PowerPoint
* Knowledge of Protected Areas and their management
* Knowledge of conservation and land management issues.
* Knowledge of the concept of Ecosystem Services provided by Peatlands
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| Personal Qualities | * Ability to meet the transport requirements of the post
* Ability to work using own initiative and to generate ideas and present them persuasively
* Self-confidence, reliability and self-reliance and the ability to work without close supervision.
* Willingness to work outside normal office hours on occasion
* Political awareness of upland management issues
* Needs also to be practical and to have considerable tact on occasions.
* Needs to be articulate, presentable pleasant and capable of making a positive impact on the area and its communities.
 | * A personal commitment to and interest in the North Pennines AONB
* Calm under pressure
* Good interpersonal skills
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