

Candidate Information

Position:	Senior Geographical Information Scientist (GIS)
School/Department:	School of Natural and Built Environment
Reference:	18/106558
Closing Date:	Monday 16 July 2018
Salary:	£27,285 - £31,604 per annum (potential to progress to £34,520 per annum through sustained exceptional contribution)

JOB PURPOSE:

To manage the GIS laboratory for the provision of specialist knowledge, complex spatial analysis and advanced training in the discipline of geographical information science (GIS) for teaching and research for staff, students and external organisations

MAJOR DUTIES:

1. To plan, oversee and manage the day to day running of and supervision of users within, the GIS laboratory, ensuring a safe working environment is monitored and maintained, and that there is an efficient use of its resources by students, staff and outside organisations/visitors.
2. Provide a range of technical services including high quality geographical information outputs and maps and to provide efficient highly expert knowledge of GI systems, data and software to identify and meet customer needs.
3. To prepare and create GIS materials and set up related survey equipment for complex experiments, research projects, and teaching demonstrations, and to manage the specialised training and timetabling of use of such equipment based on technical knowledge and expertise
4. Advise and assist academic staff in the planning and development of spatial analysis for research and to provide assistance in the application of GIS for strengthening research.
5. To provide advanced technical GIS expertise for staff, students and collaborators in all relevant techniques, concepts, use and ability of GIS providing a significant contribution to the design, development and construction of new and innovation research experiments, software and specialist equipment within the School and University.
6. Regular liaison with external contacts in the field of Geographical Information Science and the technical expertise and experience to directly prepare, design and deliver advisory presentations or activities of highly specialist knowledge of GI Science and Survey to external contacts thus representing the GIS Unit within GAP and contributing to the department's outreach goals.
7. To prepare and disseminate spatial datasets for GIS practical teaching materials and GIS research based on lengthy specialist knowledge.
8. Provide highly detailed specialist on the job GIS training to staff and students, colleagues and wider staff drawing upon considerable depth of knowledge, skills, experience and expertise.
9. Contribute to academic and research publications, research applications and research grant applications.
10. To contribute to and create new or improved methods by designing, modifying and creating bespoke GIS programming routines, scripts and web-based applications according to a specific specialist need for teaching or research projects.
11. Participate in the planning and continual development of research programmes identify problems for research and teaching and subsequently perform complex spatial data analysis and evaluation reporting highlighting areas of improvement or further research.
12. Maintain and manage stocks of GIS and survey equipment for use in research and teaching including the identification and diagnosis / rectification of any equipment issues ensuring GIS software licenses and IT hardware are operational for the GIS laboratory and GIS departmental users. Delegated responsibility for ordering GIS resources for GIS laboratory and GIS based research.
13. Monitor and maintain a safe working environment in accordance with Health and Safety procedures.
14. Carry out any other duties which are appropriate to the post as may be reasonably be requested by Manager.

Planning and Organising:

1. Plan, prioritise and timetable GIS work and responsibilities to meet deadlines alongside an awareness of longer term GIS Unit and laboratory issues or collaborations.
2. Carry out planning for short term GIS projects or contribute to GIS planning for collaborative unit, School or University research.
3. Allocation/guidance of work and responsibilities to students or research staff

Resource Management Responsibilities:

1. On the job training to junior colleagues, and students in the use of geospatial equipment, skills, techniques and software.
2. Take delegated responsibility for GIS resources and GIS related research budgets by following established procedures.
3. Oversee the use and maintenance of survey equipment.
4. Manage stock control ensuring financial procedures are adhered to.

Internal and External Relationships:

1. Daily contact with GIS work colleagues, University staff and students.
2. Regular professional liaison with external contacts and organisations in relation to Geographical Information Science.
3. Attendance at internal and external meetings as requested by GIS Officer and senior GIS staff to represent the GIS Research and Teaching Unit.

ESSENTIAL CRITERIA:

1. Postgraduate qualification in GIS or equivalent experience in GIS in a Geographical or cognate discipline context.
2. 3 years' extensive demonstrable experience using GIS within a research and/or teaching focussed environment
3. Ability to understand, conceptualise and interpret the GIS technical requirements of staff, students and other clients.
4. Experience of demonstrating/presenting GIS and its functionality to a broad range of internal stakeholders (Staff, researchers, students) and external stakeholders (Industry, Government and NGO's).
5. Well-developed communication skills
6. Good working knowledge of broader activities within the field of GIS.
7. Skills in managing budgets/resources
8. Substantial experience of demonstrating/presenting GIS and its functionality to a broad range of internal stakeholders (Staff, researchers, students) and external stakeholders (Industry, Government and NGO's).
9. Ability to plan and allocate work and responsibilities using discretion to determine priorities and resolve conflicts to meet targets and deadlines.
10. Supervisory skills.

DESIRABLE CRITERIA:

1. Evidence of continuous professional development