### Job title
Digital Research Scientist – Django Developer

### Job family and level
Administrative, Professional and Managerial Level 4

### School/Department
Digital Research Service

### Location
Jubilee campus

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#### Purpose of role
The purpose of this role is to act as an analyst to support the aims of the service by delivering high quality outputs. They are to support the work of the Senior members of the team. They will work independently on individual projects and deliver bioinformatic analyses and software within agreed timeframes and budgets.

#### Main responsibilities
(Primary accountabilities and responsibilities expected to fulfil the role)

<table>
<thead>
<tr>
<th>% time per year</th>
<th>1</th>
<th>Undertake digital research projects</th>
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<tbody>
<tr>
<td></td>
<td>75%</td>
<td>- Take responsibility for the definition, documentation and satisfactory completion of collaborative digital research projects defining requirements, timescales priorities, milestones and managing risks to the success of the project.</td>
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<tr>
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<td>- Design, construct, test and document digital research pipelines to support the needs of the researchers</td>
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<td>- Support researchers in understanding the benefits of following data handling best practices</td>
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<th>2</th>
<th>Promote the service</th>
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<tr>
<td>10%</td>
<td>- Actively represent Digital Research Service with a remit to offer specialist expertise and guidance</td>
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<td>- Promote awareness, access and use across the institution</td>
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<td>- Provide researchers with access to expertise and advice that has a strong impact on improving research quality</td>
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<th>3</th>
<th>Deliver Output</th>
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<tr>
<td>5%</td>
<td>- Support researchers by contributing to research papers to be published in academic literature</td>
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<tr>
<th>4</th>
<th>Personal Development</th>
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<td>5%</td>
<td>- Develop own skills and professional capability in line with the needs of the service.</td>
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<td>- Maintain an awareness of technical developments, tools and ideas in research computing, including attending seminars, technical briefings, conferences and technical groups</td>
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| 5             | - Any other duties appropriate to the grade and role of the person appointed |

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RPF Band B
## Person specification

### Essential

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<th>Skills</th>
<th>Desirable</th>
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| • The ability to develop command line tools and web applications using Python. This should include:  
  o Develop command line tools to process datasets using Pandas, and  
  o Develop web applications using Django  
• Experience using source code version control systems such as Git  
• Excellent oral and written communication skills, including the ability to communicate with clarity on complex information.  
• High analytical ability to analyse and illuminate data, interprets reports, evaluate and criticise texts and bring new insights  
• Strong organisational, collaborative, and communication skills for dissemination of results. | • Understanding and experience of research in the commercial sector.  
• A broad understanding of a mixture of database technologies  
• Experience in working with web frameworks  
• Experience of using Microsoft Azure cloud-based infrastructure  
• Experience with Health data standard (SNOMED-CT, ICD or OMOP) |

### Knowledge and experience

<table>
<thead>
<tr>
<th>Essential</th>
<th>Desirable</th>
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| • Experience in data gathering and data aggregation  
• Experience in use of research methodologies and techniques to work within area  
• Experience of developing new approaches, models, techniques or methods in research area. | • Experience in working in a service-orientated group.  
• Experience in utilising machine learning techniques on real world datasets |

### Qualifications, certification and training (relevant to role)

<table>
<thead>
<tr>
<th>Essential</th>
<th>Desirable</th>
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| ▪ Postgraduate degree in a relevant computational field  
OR  
▪ Relevant professional experience in a related field, e.g. providing analytics or software development in support of research and development in an academic or industrial setting. | |
Expectations and behaviours

The University has developed a clear set of core expectations and behaviours that our people should be demonstrating in their work, and as ambassadors of the University's strategy, vision and values. The following are essential to the role:

**Valuing people**
Is friendly, engaging and receptive, putting others at ease. Actively listens to others and goes out of way to ensure people feel valued, developed and supported.

**Taking ownership**
Is clear on what needs to be done encouraging others to take ownership. Takes action when required, being mindful of important aspects such as Health & Safety, Equality, Diversity & Inclusion, and other considerations.

**Forward thinking**
Drives the development, sharing and implementation of new ideas and improvements to support strategic objectives. Engages others in the improvement process.

**Professional pride**
Is professional in approach and style, setting an example to others; strives to demonstrate excellence through development of self, others and effective working practices.

**Always inclusive**
Builds effective working relationships, recognising and including the contribution of others; promotes inclusion and inclusive practices within own work area.

Key relationships with others

![Relationship Diagram]

- **Line manager**
- **Role holder**
- **Key stakeholder relationships**
  - Researchers
  - Grant holders/PIs
  - Team colleagues