



1 Advertisement

Post Title: Research Fellow in Data Science

School/department: Engineering & Informatics, Mathematical & Physical Sciences

Hours: part time hours considered up to a maximum of 0.4 FTE

Requests for flexible working options will be considered (subject to business need).

Location: Brighton, United Kingdom

Contract: fixed term until 31 July 2023

Reference: 10562

Salary: starting at £36,333 to £43,155 per annum, pro rata if part time

Placed on: 24 February 2023

Closing date: 10 March 2023. Applications must be received by midnight of the closing date.

Expected interview date: To be confirmed

Expected start date: As soon as possible.

The Data Intensive Science Centre (DISCUS) are creating a new team to develop our knowledge and technology transfer activities with industry and other external partners.

As part of the Centre and with support from the Research Assistant in Data Science, you will develop projects that apply data analysis in novel ways to real-world data from external partners to solve real-world problems.

You will facilitate innovation and knowledge exchange projects by

- developing machine learning canvas sessions in collaboration with domain specific experts where needed
- gathering requirements of potential external collaborators and contribute to the design of potential knowledge exchange projects
- carrying out the multiple stages of a data science project lifecycle
- disseminating results of research and best practice as appropriate.

Please contact Louise Winters (L.Winters@sussex.ac.uk) for informal enquiries.

The University is committed to equality and valuing diversity, and applications are particularly welcomed from women and black and minority ethnic candidates, who are under-represented in academic posts in Science, Technology, Engineering, Medicine and Mathematics (STEMM) at Sussex.

“Please note that this position may be subject to [ATAS clearance](#) if you require visa sponsorship.”

For full details and how to apply see our [vacancies page](#)

The University of Sussex values the diversity of its staff and students and we welcome applicants from all backgrounds.

Please note: The University requires that work undertaken for the University is performed from the UK.

2. The School / Division

Please find further information regarding the school/division at <https://www.sussex.ac.uk/discus/>

3. Job Description

Job Description for the post of: Research Fellow in Data Science

Department:	N/A
Section/Unit/School:	Data Intensive Science Centre at University of Sussex (DISCUS)
Location:	Data Intensive Science Centre at University of Sussex
Grade:	Research Fellow I, Grade 7
Responsible to:	DISCUS Co-Directors
Responsible for:	Research Assistant in Data Science

PRINCIPAL ACCOUNTABILITIES

1. To engage in individual and/or collaborative Knowledge Exchange activity resulting in high-quality research outputs or deliverables to industry; and to develop knowledge exchange income individually or in collaboration with others, as appropriate, depending on the size and scope of the bid.
2. To contribute to training and communication activities.

KEY RESPONSIBILITIES

1. **Research, Scholarship & Enterprise**
 - 1.2 Conduct knowledge exchange research projects individually and in collaboration with others.
 - 1.3 Analyse and interpret research findings and draw conclusions on the outcomes.
 - 1.4 Produce high-quality outputs for industry and publications (where appropriate) in monographs or recognised high-quality journals, or performance/exhibition, as appropriate, and contribute to the Schools' (MPS / EngInf) REF submissions at acceptable levels of volume and academic excellence.
 - 1.5 Contribute to the preparation of proposals and applications to external bodies, for example for consultancy.

- 1.6 Individually or with colleagues, explore opportunities for enterprise activity, knowledge exchange income and/or consultancy, where permissible.
- 1.7 Build internal and external contacts and participate in internal networks and relevant external networks in order to form relationships and collaborations.
- 1.8 Continually update knowledge and understanding in field or specialism, and engage in continuous professional development.

2. Teaching & Student Support

- 2.1 Undertake data science training duties, if required.
- 2.2 Assist in the assessment of student knowledge and supervision of student projects if required.
- 2.3 Assist in the development of student research skills, for example as part of a postgraduate supervision team, if required.

3. Contribution to School & University

- 3.1 Attend and contribute to relevant School and project meetings.
- 3.2 Undertake additional duties, as required by the Principal Investigator and/or Heads of Schools.

4. Role-specific duties

- 4.1 Develop machine learning canvas sessions with potential clients, in collaboration with domain specific experts where needed.
- 4.2 Gather needs & requirements of potential industry collaborators / partners and contribute (with colleagues) to design of potential collaboration projects.
- 4.3 Carry out the multiple stages of a data science project lifecycle.
- 4.4 Become familiar with and develop APIs and dashboards.
- 4.5 Disseminate results of research and best practice with colleagues and in external workshops & conferences, as appropriate.

This Job Description sets out current duties of the post that may vary from time to time without changing the general character of the post or level of responsibility entailed.

4. Person Specification

ESSENTIAL CRITERIA

1. Normally educated to doctoral level, or other equivalent qualification, or appropriate level of experience, as appropriate to the discipline (see role-specific criteria below).
2. Evidence of engagement in high-quality research activity.
3. Excellent presentation skills, with the ability to communicate effectively, both orally and in writing, with students, colleagues and external audiences.
4. Ability to work individually on own initiative and without close supervision, and as part of a team.
5. Ability to exercise a degree of innovation and creative problem-solving.
6. Excellent organisational and administrative skills.
7. Ability to prioritise and meet deadlines.
8. Excellent IT skills.

ESSENTIAL ROLE-SPECIFIC CRITERIA

1. Emerging track record of high-quality publications in reputable journals and other appropriate media of similar standing
2. Expert knowledge on advanced statistical data analysis, machine learning techniques e.g. Bayesian inference and probabilistic programming
3. Good problem solving skills
4. Experience in wide variety of data analysis tasks.
5. Demonstrable expertise in programming
6. Strong writing and communication skills

DESIRABLE CRITERIA

1. Excellent expertise in Python language
2. Experience of developing code for other users
3. Experience of analysis of wide variety of data sources and modalities, e.g. images, video text, geospatial data, time series data,
4. Experience with containerisation and other DevOps skills
5. Experience in disseminating results to non-academics.
6. Experience in supervision of projects