JOB DESCRIPTION

POST TITLE: Professor in Data Science

DEPARTMENT: Department of Computer Science, and/or Department of Statistics and/or Mathematics Institute

POST NO: 77752

POST RESPONSIBLE TO: Head of Computer Science, Statistics or Mathematics

SALARY Competitive

CLOSING DATE: 31 January 2017

JOB PURPOSE
You will undertake research, teaching, administration and other activities which support the work of the relevant Departments and develop and enhance their reputation, both internally and externally to the University. In addition, you will enhance the activity and the reputation of the Turing Institute through your research and your contributions to research supervision and administration.

DUTIES AND RESPONSIBILITIES
Research

1. To maintain a position of research leadership nationally and internationally, as well as within the University and the Turing Institute.

2. To establish a sound research base within the relevant Department(s) and the Turing Institute in order to pursue individual and collaborative research of world-leading quality, consistent with making a substantial research contribution.

3. To publish research outcomes in appropriate journals of international standing and to publish and disseminate the result of research and scholarship in other reputable outlets.

4. As part of your research agenda, to plan or pursue research with an impact on society (related to e.g. individual health and behaviour, economic success, government policy etc.) and to aid in further developing the impact and benefits to society arising from that research.

5. To stimulate the interaction between the relevant research communities at Warwick and the Turing Institute and to contribute to the scientific and training agenda of the Turing Institute.

6. To attend and present research findings and papers at academic and professional conferences and to contribute to the external visibility and the excellent reputation of the Department(s) and the Turing Institute.

7. To secure, in collaboration with colleagues as appropriate, external funding through research grants or contracts to support a developing research agenda.

8. To manage research projects within the University and the Turing Institute, including their financial control and to supervise post-doctoral research assistants, research students, technical and other support staff engaged in research.
9. To consider the value of research achievements within their potential commercial context where appropriate and, with the assistance of Warwick Research and Impact Services or the Turing Institute, take appropriate action to ensure that intellectual property rights are protected.

10. To contribute fully to the research plans developed by the Department(s) and the Turing Institute including providing such information as may be required.

11. Where appropriate, to contribute to the development of impact case studies and to assist the Department(s) in submitting these for Research Excellence Framework or other purposes.

12. Where appropriate and expedient, to secure contract work to the benefit of (your) research activity and to provide resources to underpin this activity.

Teaching
13. To teach and supervise in data science and related topics. To give lectures, seminars, tutorials and other classes as appropriate in support of the required teaching obligations and to supervise project work by postgraduate and undergraduate students.

14. To contribute to the supervision and training activities of PhD students.

15. To co-operate with colleagues in the continuous review and development of the curriculum, and in the design and launch of new degrees or other academic awards where appropriate, in particular in the field of data science.

16. To undertake academic duties (i.e. setting examinations, marking, invigilation and pastoral support of students) required to sustain the delivery of high quality teaching.

17. To maintain a broad knowledge of up-to-date research and scholarships in relevant fields to ensure that teaching meets the standards expected within a research-led University.

Administration and other Activities
18. To undertake such specific roles and management functions as may be reasonably required by the Head of Department or the Director of the Turing Institute.

19. To attend relevant meetings and to participate in other committees and working groups within the Department, the University and the Turing Institute.

20. To participate in relevant professional activities and engage in continuous professional development.

21. To undertake external commitments which maintain and enhance the reputation of the University and the Turing Institute.

The duties and responsibilities outlined are not intended to be an exhaustive list but provide guidance on the main aspects of the job. The post-holder will be required to be flexible in their duties.
PERSON SPECIFICATION

POST TITLE: Professor

DEPARTMENT: Department of Computer Science, and/or Department of Statistics and/or Mathematics Institute

The Person Specification focuses on the knowledge, skills, experience and qualifications required to undertake the role effectively.

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<tr>
<th>REQUIREMENTS</th>
<th>ESSENTIAL (E) or DESIRABLE (D)</th>
<th>MEASURED BY:</th>
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<tr>
<td>The postholder must be able to demonstrate:</td>
<td></td>
<td>a) Application Form</td>
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<td>PhD in an appropriate subject</td>
<td>E</td>
<td>b) Test/Exercise</td>
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<td>Substantial experience of research, teaching and administration in a major university or equivalent</td>
<td>E</td>
<td>c) Interview</td>
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<td>An excellent record of high-quality research and publications in refereed international journals or influential proceedings, including clear evidence of world-leading work in one or more areas of research</td>
<td>E</td>
<td>d) Presentation</td>
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<td>Research record and continuing interest in one or more areas of research that fit within the research agendas of the Turing Institute and the Department(s).</td>
<td>E</td>
<td>a, c, d</td>
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<td>International research leadership</td>
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<td>a, c, d</td>
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<td>Track record of winning substantial research funds</td>
<td>D</td>
<td>a, c</td>
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<td>Ability and willingness to generate external funding (grants, contracts etc) to support research</td>
<td>E</td>
<td>a, c</td>
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<tr>
<td>Ability to teach undergraduates and postgraduate students in lectures, tutorials, seminars and practical classes</td>
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<td>a, c, d</td>
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<td>Evidence of teaching excellence at both undergraduate and postgraduate levels and an interest in course development</td>
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<td>Good communication skills (oral and written), as well as effective presentation and training skills</td>
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<td>Good interpersonal skills</td>
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<td>Ability to work independently and as part of a team on research and teaching programmes</td>
<td>E</td>
<td>a, c</td>
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FURTHER PARTICULARS

Further information about the University of Warwick:
http://www2.warwick.ac.uk/services/humanresources/jobsintro/furtherparticulars

Further information about the Alan Turing Institute: http://www.turing.ac.uk/

Further information about the Department of Computer Science: http://www.dcs.warwick.ac.uk/

Further information about the Department of Statistics: http://warwick.ac.uk/stats

Further information about the Department of Mathematics:
http://www2.warwick.ac.uk/fac/sci/maths

More information on WDSI: http://warwick.ac.uk/wdsi

Informal enquires can be addressed to Professor Graham Cormode (G.Cormode@warwick.ac.uk), Professor Mark Steel (M.Steel@warwick.ac.uk), Professor Stephen Jarvis (S.A.Jarvis@warwick.ac.uk), Professor Colin Sparrow (C.Sparrow@warwick.ac.uk), or to any other senior member of the Warwick Departments involved.