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## 1. Introduction

> This is the first in a series of reports commissioned by the London Mathematical Society. The intention is to provide an accessible reference document providing data on Academic Mathematical Sciences Staff in UK Higher Education Institutions; a further in-depth analysis report will be published in due course. A report focusing on the Research Income of Mathematics in UK Higher Education Institutions is also planned. This report presents the latest available data on academic and research staff recorded under the UK Higher Education Institute (HEI) mathematics cost centre and in a number of selected other cost centres. The data source for the report is the Higher Education Statistics Agency (HESA). HESA is the central source for the collection and dissemination of statistics about publicly funded UK higher education.

### 1.1 Cost Centres

HESA require staff data to be returned with staff assigned to cost centres. The list of cost centres includes: mathematics; physics; electrical engineering \& computer science; information technology \& system science, computer software engineering; chemistry; and biosciences, which are discussed in this report. Institutions are required to map their constituent departments/schools to cost centres. If they wish they can apportion departments across a number of cost centres. This can lead to anomalies: in some cases, HEls report mathematical sciences staff although there is no recognised mathematical sciences department. In other cases staff numbers may not match those in a specific mathematical sciences department as staff from other departments may have been counted as belonging to the mathematics cost centre, and/or staff working in a mathematical sciences department may be assigned to another cost centre.

Cost centres vary greatly in their breadth of coverage: for example, biosciences covers a large range of university departments including Life and Health Sciences, Biomedical Science, Cancer Research, Biochemistry, and Sports Science. Full details of the mapping between departments and cost centres are available on the HEFCE website. ${ }^{1}$ In mathematical sciences the majority of institutions map their mathematical sciences-related departments directly onto the mathematics cost centre; a few institutions use more complicated mappings.
It is important to note that, throughout this report, we refer to the mathematics cost centre as Mathematical Sciences. We have chosen to do this so as to make explicit the fact that "mathematics", in HESA's terminology, includes (for example) Statistics and Operational Research. This usage conforms with that employed in REF2014; the full set of mappings between HESA Cost Centres and REF Units of Assessment can be found on the HESA web site ${ }^{2}$.

[^0]
### 1.2 Staff Grades

Until 2007/08, HESA reported staff data were categorised into professors, senior lecturers/readers, lecturers, researchers and other grades. The definitions employed for these staff grades are shown below:

Professors includes heads of departments, professors, researchers in former UAP scale grade IV, clinical professors, and those appointed professors on a locally determined scale.

## Senior lecturers/readers/readers \& researchers

 includes principal lecturers, senior lecturers/ readers (former UAP/CSCFC scales), researchers (former UAP scale grade III), clinical senior lecturers/readers and those appointed senior or principal lecturers on a locally determined scale.Lecturers includes lecturers, senior lecturers (former PCEF scale), clinical lecturers and those appointed lecturers on a locally determined scale.

Researchers includes all research grades (former PCEF/CSCFC/UAP scale) not listed above and those researchers appointed on a locally determined scale.

Other grades includes other grades of academic staff not listed above.

Since 2008/09 this breakdown of grades has not been used by HESA. Although professors are identifiable through a specific marker returned by institutions to HESA, there have been substantial changes in the way some non-professorial staff are classified. It is likely that some staff will be classified incorrectly in this transition, nonetheless the data compare reasonably well with previous years, although it is noticeable that the "other grades" category is depleted as the methodology used classifies the majority of staff previously recorded as "other staff" as "senior lecturers/readers/lecturers". It is not possible to distinguish between senior lecturers/readers and lecturers.

Staff numbers are presented as full time equivalents (FTEs) not as headcounts. The conditions of HESA's licence require that where we publish numerical totals, they are rounded to the nearest 5; any totals less than 5 may not be published. Notwithstanding these constraints, all proportions and ratios presented in the report are calculated using unrounded figures.
In the report a number of different terms are used to signify different groupings of academic grades. The term permanent academic staff refers to professors, senior lecturers/readers, and lecturers; the term academic staff refers to professors, senior lecturers/readers, lecturers and researchers; and the term all staff refers to all academic staff grades and other grades. However it is important to note that the term "permanent" in this instance does not convey any information about the nature or duration of the contracts of the people listed.

## 2. Mathematical Sciences Staff in UK HEls

### 2.1 The Number of Staff

Table 1: The number (=FTEs) of staff in selected cost centres by grade 2006/07 to 2011/12 (Source: HESA Staff Data)

| Cost centre | Grade | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2010/11 | 2011/12 | \% Change* |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Professors | 685 | 755 | 720 | 710 | 695 | 765 |  |
|  | Senior Lecturers/Readers | 695 | 750 | 2560 | 2615 | 2655 | 2585 |  |
|  | Lecturers | 930 | 975 |  |  |  |  |  |
|  | Researchers | 630 | 715 | 685 | 705 | 725 | 715 |  |
|  | Other grades | 850 | 870 | 10 | 5 | 5 | 5 |  |
|  | Teaching only | 1015 | 1030 | 1085 | 1080 | 1145 | 1065 |  |
|  | Total Staff | 3790 | 4065 | 3975 | 4035 | 4080 | 4070 | 7\% |
| $\frac{\ddots}{\frac{\tilde{n}}{\mathrm{n}}}$ | Professors | 590 | 620 | 635 | 650 | 670 | 745 |  |
|  | Senior Lecturers/Readers | 555 | 585 | 1355 | 1335 | 1320 | 1350 |  |
|  | Lecturers | 400 | 420 |  |  |  |  |  |
|  | Researchers | 1995 | 2125 | 2210 | 2180 | 2145 | 2110 |  |
|  | Other grades | 330 | 350 | 10 | 0 | 0 | 0 |  |
|  | Teaching only | 310 | 335 | 385 | 365 | 345 | 355 |  |
|  | Total Staff | 3865 | 4100 | 4210 | 4170 | 4140 | 4205 | 9\% |
|  | Professors | 445 | 465 | 475 | 465 | 470 | 485 |  |
|  | Senior Lecturers/Readers | 785 | 855 | 1910 | 2040 | 2205 | 2135 |  |
|  | Lecturers | 810 | 710 |  |  |  |  |  |
|  | Researchers | 1340 | 1370 | 1395 | 1345 | 1450 | 1415 |  |
|  | Other grades | 355 | 355 | 10 | 5 | 0 | 0 | - |
|  | Teaching only | 405 | 385 | 410 | 495 | 585 | 595 |  |
|  | Total Staff | 3730 | 3760 | 3790 | 3855 | 4125 | 4040 | 8\% |
|  | Professors | 550 | 600 | 560 | 555 | 580 | 595 |  |
|  | Senior Lecturers/Readers | 1795 | 1800 | 5070 | 4885 | 4745 | 4420 |  |
|  | Lecturers | 2085 | 1970 |  |  |  |  |  |
|  | Researchers | 1455 | 1485 | 1505 | 1505 | 1515 | 1470 |  |
|  | Other grades | 1300 | 1280 | 35 | 25 | 15 | 10 |  |
|  | Teaching only | 1505 | 1455 | 1640 | 1560 | 1500 | 1340 |  |
|  | Total Staff | 7180 | 7135 | 7175 | 6970 | 6860 | 6495 | -10\% |
|  | Professors | 420 | 455 | 460 | 450 | 460 | 515 |  |
|  | Senior Lecturers/Readers | 530 | 565 | 1375 | 1440 | 1440 | 1395 |  |
|  | Lecturers | 485 | 490 |  |  |  |  |  |
|  | Researchers | 1715 | 1760 | 1725 | 1675 | 1680 | 1695 |  |
|  | Other grades | 290 | 250 | 0 | 0 | 0 | 0 |  |
|  | Teaching only | 320 | 280 | 355 | 375 | 410 | 425 |  |
|  | Total Staff | 3435 | 3525 | 3565 | 3565 | 3585 | 3610 | 5\% |
|  | Professors | 1100 | 1190 | 4715 | 1220 | 1190 | 1295 |  |
|  | Senior Lecturers/Readers | 1645 | 1710 | 4715 | 4695 | 4940 | 4875 |  |
|  | Lecturers | 1650 | 1715 |  |  |  |  |  |
|  | Researchers | 5330 | 5515 | 5815 | 5875 | 5720 | 5620 |  |
|  | Other grades | 1255 | 1210 | 20 | 10 | 5 | 10 |  |
|  | Teaching only | 1115 | 1160 | 1340 | 1320 | 1395 | 1390 |  |
|  | Total Staff | 10980 | 11340 | 11775 | 11790 | 11855 | 11795 | 7\% |
|  | Professors | 16165 | 17895 | 17220 | 17055 | 17120 | 18125 |  |
|  | Senior Lecturers/Readers | 33280 | 36560 | 118760 | 121260 | 120690 | 120110 |  |
|  | Lecturers | 50980 | 50985 |  |  |  |  |  |
|  | Researchers | 36280 | 37565 | 39200 | 39685 | 40060 | 40105 |  |
|  | Other grades | 30200 | 28695 | 700 | 375 | 275 | 285 |  |
|  | Teaching only | 42105 | 41795 | 44730 | 45300 | 44180 | 44930 |  |
|  | Total Staff | 166910 | 171700 | 175880 | 178375 | 178145 | 178630 | 7\% |

* \% change is calculated based on the data for 2006/07 and 2011/12

Figure 1: Number of all staff in individual mathematical sciences cost centres by institution in 2011/12 (Source: HESA Staff Data)*


* The Open University has not been included in Figure 1.

Figure 1 presents data on the size distribution of the mathematical sciences cost centres. The size of individual mathematical sciences cost centres varies from HEls with fewer than 10 staff to institutions returning well over 150 staff in mathematical sciences.

Figure 2: Proportion of all permanent academic staff,* including teaching only staff, who are professors in the mathematical sciences cost centres by HEI in 2011/12 (Source: HESA Staff Data)


* Permanent academic staff are professors, senior lecturers/readers, and lecturers

Table 2: The proportion of staff at each permanent academic grade in selected cost centres 2006/07 to 2011/12, excluding teaching only staff (Source: HESA Staff Data)

| Cost centre | Grade | Proportion of staff at each grade |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2010/11 | 2011/12 |
| Mathematical Sciences | Professor | 33\% | 33\% | 33\% | 31\% | 31\% | 33\% |
|  | Senior Lecturer/Reader | 33\% | 33\% | 67\% | 69\% | 69\% | 67\% |
|  | Lecturers | 34\% | 34\% |  |  |  |  |
| Physics | Professor | 39\% | 39\% | 39\% | 40\% | 40\% | 43\% |
|  | Senior Lecturer/Reader | 37\% | 37\% | 61\% | 60\% | 60\% | 57\% |
|  | Lecturer | 24\% | 24\% |  |  |  |  |
| Electrical, Electronic \& Computer Engineering | Professor | 24\% | 25\% | 24\% | 23\% | 22\% | 24\% |
|  | Senior Lecturer/Reader | 42\% | 31\% | 76\% | 77\% | 78\% | 76\% |
|  | Lecturer | 34\% | 35\% |  |  |  |  |
| IT \& SS, Computer Software Engineering | Professor | 14\% | 15\% | 14\% | 14\% | 15\% | 16\% |
|  | Senior Lecturer/Reader | 45\% | 46\% | 86\% | 86\% | 85\% | 84\% |
|  | Lecturer | 41\% | 39\% |  |  |  |  |
| Chemistry | Professor | 32\% | 33\% | 31\% | 29\% | 30\% | 34\% |
|  | Senior Lecturer/Reader | 40\% | 40\% | 69\% | 71\% | 70\% | 66\% |
|  | Lecturer | 29\% | 28\% |  |  |  |  |
| Biosciences | Professor | 27\% | 28\% | 26\% | 26\% | 25\% | 27\% |
|  | Senior Lecturer/Reader | 39\% | 39\% | 74\% | 74\% | 75\% | 73\% |
|  | Lecturer | 34\% | 33\% |  |  |  |  |
| All academic cost centres | Professor | 19\% | 21\% | 19\% | 18\% | 18\% | 19\% |
|  | Senior Lecturer/Reader | 38\% | 40\% | 81\% | 82\% | 82\% | 81\% |
|  | Lecturer | 43\% | 39\% |  |  |  |  |

Table 3: The proportion of teaching only staff at each permanent academic grade in selected cost centres 2006/07 to 2011/12 (Source: HESA Staff Data)

| Cost centre | Grade | Proportion of staff at each grade |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 2006/ 07 | 2007/ 08 | 2008/ 09 | 2009/ 10 | 2010/ 11 | 2011/12 |
| Mathematical Sciences | Professor | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% |
|  | Senior Lecturer/Reader | 6\% | 5\% | 100\% | 100\% | 100\% | 100\% |
|  | Lecturer | 93\% | 95\% |  |  |  |  |
| Physics | Professor | 0\% | 3\% | 1\% | 1\% | 1\% | 2\% |
|  | Senior Lecturer/Reader | 8\% | 13\% | 99\% | 99\% | 99\% | 98\% |
|  | Lecturer | 92\% | 85\% |  |  |  |  |
| Electrical, Electronic \& Computer Engineering | Professor | 1\% | 2\% | 1\% | 0\% | 0\% | 1\% |
|  | Senior Lecturer/Reader | 6\% | 6\% | 99\% | 100\% | 100\% | 99\% |
|  | Lecturer | 93\% | 92\% |  |  |  |  |
| IT \& SS, Computer Software Engineering | Professor | 1\% | 2\% | 0\% | 0\% | 0\% | 0\% |
|  | Senior Lecturer/Reader | 6\% | 5\% | 100\% | 100\% | 100\% | 100\% |
|  | Lecturer | 92\% | 93\% |  |  |  |  |
| Chemistry | Professor | 2\% | 3\% | 1\% | 1\% | 1\% | 1\% |
|  | Senior Lecturer/Reader | 7\% | 11\% | 99\% | 99\% | 99\% | 99\% |
|  | Lecturer | 92\% | 87\% |  |  |  |  |
| Biosciences | Professor | 1\% | 0\% | 0\% | 1\% | 1\% | 1\% |
|  | Senior Lecturer/Reader | 13\% | 8\% | 100\% | 99\% | 99\% | 99\% |
|  | Lecturer | 86\% | 92\% |  |  |  |  |
| All academic cost centres | Professor | 1\% | 1\% | 1\% | 1\% | 1\% | 0\% |
|  | Senior Lecturer/Reader | 11\% | 9\% | 99\% | 99\% | 99\% | 100\% |
|  | Lecturer | 88\% | 90\% |  |  |  |  |

### 2.2 Mathematical Sciences Staff and the RAE2008

Mathematical sciences related research units were able to make submissions under the applied mathematics, pure mathematics or statistics and operational research units of assessment (UoA) in the Research Assessment Exercise 2008. There were 45 submissions under the applied mathematics UoA, 37 under the pure mathematics UoA, and 30 under the statistics and operational research UoA. The submission date for the exercise was 31 December 2007.

Table 4: Number of category A staff submitted under selected UoAs in the RAE2008 and HESA staff data for the equivalent cost centres for 2007/08 (Sources: RAE2008 and HESA Staff Data)
$\begin{array}{|l|c|c|c|c|}\hline \text { Unit of Assessment(s) } & \text { Category A } \\ \text { staff }\end{array} \quad$ Cost Centre $\left.\begin{array}{c}\text { 2007-08 HESA } \\ \text { Research Active } \\ \text { Permanent } \\ \text { academic staff FTEs }\end{array} \quad \begin{array}{c}\text { Ratio of Category A } \\ \text { FTEs to HESA FTEs }\end{array}\right]$

Table 5: Number of category A staff submitted by institutions to mathematical sciences UoAs in RAE2008 and HESA staff data for the mathematical sciences cost centre for 2006/07* (Sources: RAE2008 and HESA Staff Data)

| Institution | Permanent Academic Staff** | FTE Category A staff submitted |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Applied Mathematics | Pure Mathematics | Statistics and Operational Research | Total |
| University of Cambridge | 95 | 80.3 | 55.0 | 16.0 | 151.3 |
| University of Oxford | 95 | 54.3 | 55.2 | 24.5 | 133.9 |
| University of Bristol | 75 | 38.0 | 34.5 | 23.0 | 95.5 |
| University of Warwick | 95 | 29.3 | 32.0 | 24.0 | 85.3 |
| Imperial College London | 75 | 37.2 | 21.8 | 13.9 | 72.9 |
| University of Manchester | 75 | 28.8 | 27.0 | 10.9 | 66.7 |
| University of Southampton | 80 | 17.0 | 15.8 | 28.0 | 60.8 |
| University of Leeds | 70 | 24.9 | 23.2 | 11.0 | 59.1 |
| University of Edinburgh | 50 | 17.0 | 31.0 | 11.0 | 59.0 |
| University of Nottingham | 60 | 34.4 | 15.0 | 9.0 | 58.4 |
| University of Durham | 50 | 26.0 | 15.0 | 11.6 | 52.6 |
| University of Glasgow | 50 | 19.0 | 16.3 | 13.0 | 48.3 |
| Heriot-Watt University | 50 | 18.5 | 10.0 | 19.0 | 47.5 |
| University College London | 55 | 16.5 | 15.3 | 13.5 | 45.3 |
| University of Sheffield | 45 | 17.0 | 17.3 | 10.7 | 45.0 |
| University of Bath | 45 | 19.8 | 10.0 | 15.0 | 44.8 |
| Queen Mary, University of London | 50 | 15.0 | 20.2 | 8.2 | 43.4 |
| University of Liverpool | 45 | 23.3 | 15.0 | 5.0 | 43.3 |
| University of Birmingham | 40 | 25.0 | 18.0 |  | 43.0 |
| University of Strathclyde | 45 | 24.3 |  | 10.3 | 34.7 |
| University of York | 35 | 22.0 | 12.3 |  | 34.3 |
| University of Newcastle upon Tyne | 35 | 11.0 | 10.0 | 13.0 | 34.0 |
| University of St Andrews | 35 | 15.0 | 12.0 | 7.0 | 34.0 |
| Loughborough University | 40 | 20.4 | 11.4 |  | 31.8 |
| University of Lancaster | 30 |  | 10.0 | 21.7 | 31.7 |
| King's College London | 35 | 18.0 | 13.0 |  | 31.0 |
| Cardiff University | 30 |  | 30.5 |  | 30.5 |
| Brunel University | 30 | 19.0 |  | 10.0 | 29.0 |
| University of Reading | 30 | 21.3 |  | 7.7 | 29.0 |
| Royal Holloway, University of London | 35 |  | 26.6 |  | 26.6 |
| London School of Economics and Political Science | 40 |  | 12.5 | 13.0 | 25.5 |
| University of Kent | 35 | 6.0 | 6.0 | 12.0 | 24.0 |
| Open University | 55 |  | 16.5 | 7.0 | 23.5 |
| University of Exeter | 20 | 18.0 | 5.0 |  | 23.0 |
| University of Leicester | 20 | 12.0 | 10.0 |  | 22.0 |
| Swansea University | 20 |  | 20.5 |  | 20.5 |
| University of Surrey | 20 | 17.4 |  |  | 17.4 |
| University of Portsmouth | 20 | 16.0 |  |  | 16.0 |
| University of Aberdeen | 15 |  | 14.0 |  | 14.0 |
| University of East Anglia | 15 | 7.0 | 7.0 |  | 14.0 |
| University of Sussex | 15 | 13.0 |  |  | 13.0 |


| University of Dundee | 10 | 10.7 |  |  | 10.7 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| University of Salford |  |  |  | 9.8 | 9.8 |
| University of Keele | 15 | 9.0 |  |  | 9.0 |
| University of the West of England, Bristol | 25 | 9.0 |  |  | 9.0 |
| Aberystwyth University | 10 |  | 8.3 |  | 8.3 |
| City University | 25 | 8.2 |  |  | 8.2 |
| Queen's University Belfast | 10 |  | 8.2 |  | 8.2 |
| London Metropolitan University |  |  | 4.0 | 4.0 | 8.0 |
| University of Plymouth | 30 | 4.0 |  | 4.0 | 8.0 |
| Coventry University | 25 | 7.0 |  |  | 7.0 |
| University of Chester | 5 | 5.8 |  |  | 5.8 |
| Oxford Brookes University | 10 | 5.7 |  |  | 5.7 |
| University of Glamorgan | 20 | 4.0 |  |  | 4.0 |
| University of Brighton | 30 | 3.0 |  |  | 3.0 |
| University of Greenwich | 5 |  |  | 2.0 | 2.0 |
| Glasgow Caledonian University | 5 | 1.0 |  |  | 1.0 |
| Staffordshire University | 10 | 1.0 |  |  | 1.0 |
| Total | 2305 | 850.1 | 685.3 | 388.8 | 1924.1 |

* HESA staff data for 2006/07 has been used as data for 2007/08 was not in line with other years' data
** All values have been round to the nearest 5. Permanent academic staff are professors, senior lecturers/readers, and lecturers


### 2.3 Gender Balance of Staff

Table 6: The proportion of female academic staff* in selected cost centres 2006/07 to 2011/12, excluding teaching only staff (Source: HESA Staff Data)

| Cost Centre | Proportion of Female Academic Staff |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\mathbf{2 0 0 6 / 0 7}$ | $\mathbf{2 0 0 7 / 0 8}$ | $\mathbf{2 0 0 8 / 0 9}$ | $\mathbf{2 0 0 9 / \mathbf { 1 0 }}$ | $\mathbf{2 0 1 0 / \mathbf { 1 1 }}$ | $\mathbf{2 0 1 1 / \mathbf { 1 2 }}$ |
| Mathematical Sciences | $\mathbf{1 6 \%}$ | $\mathbf{1 8 \%}$ | $\mathbf{1 8 \%}$ | $\mathbf{1 8 \%}$ | $\mathbf{1 7 \%}$ | $\mathbf{1 8 \%}$ |
| Physics | $\mathbf{1 4 \%}$ | $15 \%$ | $15 \%$ | $16 \%$ | $16 \%$ | $16 \%$ |
| Electrical Electronic \& Computer Engineering | $12 \%$ | $11 \%$ | $12 \%$ | $12 \%$ | $13 \%$ | $13 \%$ |
| IT \& SS, Computer Software Engineering | $23 \%$ | $22 \%$ | $22 \%$ | $21 \%$ | $21 \%$ | $21 \%$ |
| Chemistry | $23 \%$ | $23 \%$ | $24 \%$ | $24 \%$ | $24 \%$ | $24 \%$ |
| Biosciences | $40 \%$ | $40 \%$ | $41 \%$ | $41 \%$ | $41 \%$ | $42 \%$ |
| All STEM Cost Centres | $27 \%$ | $27 \%$ | $27 \%$ | $28 \%$ | $28 \%$ | $28 \%$ |
| All Academic Cost Centres | $39 \%$ | $40 \%$ | $41 \%$ | $41 \%$ | $42 \%$ | $42 \%$ |

* Academic staff comprises professors, senior lecturers/readers, lecturers and researchers

Table 7: The proportion of female teaching only academic staff* in selected cost centres 2006/07 to 2011/12
(Source: HESA Staff Data)

| Cost Centre | Proportion of Female Academic Staff |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\mathbf{2 0 0 6 / 0 7}$ | $\mathbf{2 0 0 7 / 0 8}$ | $\mathbf{2 0 0 8 / 0 9}$ | $\mathbf{2 0 0 9 / 1 0}$ | $\mathbf{2 0 1 0 / 1 1}$ | $\mathbf{2 0 1 1 / 1 2}$ |
| Mathematical Sciences | $37 \%$ | $38 \%$ | $36 \%$ | $38 \%$ | $38 \%$ | $37 \%$ |
| Physics | $23 \%$ | $18 \%$ | $27 \%$ | $26 \%$ | $\mathbf{2 9 \%}$ | $29 \%$ |
| Electrical Electronic \& Computer Engineering | $19 \%$ | $18 \%$ | $14 \%$ | $18 \%$ | $20 \%$ | $18 \%$ |
| IT \& SS, Computer Software Engineering | $29 \%$ | $31 \%$ | $26 \%$ | $24 \%$ | $25 \%$ | $24 \%$ |
| Chemistry | $36 \%$ | $38 \%$ | $41 \%$ | $39 \%$ | $37 \%$ | $40 \%$ |
| Biosciences | $48 \%$ | $53 \%$ | $54 \%$ | $55 \%$ | $57 \%$ | $58 \%$ |
| All STEM Cost Centres | $35 \%$ | $38 \%$ | $38 \%$ | $39 \%$ | $41 \%$ | $41 \%$ |
| All Academic Cost Centres | $49 \%$ | $50 \%$ | $51 \%$ | $51 \%$ | $52 \%$ | $52 \%$ |

* Academic staff comprises professors, senior lecturers/readers, lecturers and researchers

Figure 3: Proportion of female staff in the mathematical sciences cost centre at each grade 1996/97 to 2011/12 (Source: HESA Staff Data)


Note: HESA stopped collecting data broken down by grades in 2008/09 consequently data for lecturers and senior lecturers/readers are only shown up to 2007/08

Figure 4: Proportion of female staff by grade* in individual mathematical sciences cost centres 2006/07 to 2011/12 (Source: HESA Staff Data)





* Proportions of female staff have only been calculated where there were more than 5 staff at a specific grade Professors: 2006/07, 30 excluded out of 68; 2009/10, 27 excluded out of 66; 2011/12, 21 excluded out of 64 Senior lecturers/readers and Lecturers: 2006/07, 7 excluded out of 77; 2009/10, 7 excluded out of 79; 2011/12, 7 excluded out of 77 .
Researchers: 2006/07, 28 excluded out of 62; 2009/10, 20 excluded out of 54; 2011/12, 18 excluded out of 52 Academic Staff: 2006/07, 8 excluded out of $85 ; 2009 / 10,7$ excluded out of $79 ; 2011 / 12,6$ excluded out of 77
** Academic staff comprises professors, senior lecturers/readers, lecturers and researchers.

Figure 5: Distribution of all male and female staff between grades in mathematical sciences and all cost centres 2006/07 to 2011/12 (Source: HESA Staff Data)




Distribution of all male and female staff between grades in mathematical sciences and all cost centres 2006/07 to 2011/12 (Source: HESA Staff Data)

Table 8: Percentage of all male and female staff at different grades in selected cost centres 2006/07 to
2011/12 (Source: HESA Staff Data)

| Cost Centre | Grade | Male Staff |  |  | Female Staff |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 2006/07 | 2009/10 | 2011/12 | 2006/07 | 2009/10 | 2011/12 |
| Mathematical Sciences | Professors | 22\% | 21\% | 23\% | 4\% | 5\% | 6\% |
|  | Senior Lecturers/Readers/ Lecturers/Other Staff | 61\% | 61\% | 60\% | 82\% | 79\% | 77\% |
|  | Researchers | 17\% | 18\% | 18\% | 15\% | 16\% | 17\% |
| Physics | Professors | 17\% | 18\% | 20\% | 5\% | 5\% | 7\% |
|  | Senior Lecturers/Readers/ Lecturers/Other Staff | 33\% | 31\% | 31\% | 35\% | 36\% | 37\% |
|  | Researchers | 50\% | 51\% | 49\% | 59\% | 59\% | 55\% |
| Electrical Electronic \& Computer Engineering | Professors | 13\% | 13\% | 13\% | 4\% | 5\% | 6\% |
|  | Senior Lecturers/Readers/ Lecturers/Other Staff | 53\% | 53\% | 53\% | 50\% | 54\% | 54\% |
|  | Researchers | 34\% | 34\% | 34\% | 46\% | 41\% | 40\% |
| IT \& SS, Computer Software Engineering | Professors | 9\% | 9\% | 10\% | 4\% | 4\% | 5\% |
|  | Senior Lecturers/Readers/ Lecturers/Other Staff | 70\% | 69\% | 67\% | 78\% | 76\% | 74\% |
|  | Researchers | 21\% | 22\% | 23\% | 19\% | 20\% | 20\% |
| Chemistry | Professors | 15\% | 16\% | 18\% | 3\% | 4\% | 4\% |
|  | Senior Lecturers/Readers/ Lecturers/Other Staff | 39\% | 40\% | 37\% | 35\% | 42\% | 44\% |
|  | Researchers | 46\% | 45\% | 45\% | 62\% | 54\% | 52\% |
| Biosciences | Professors | 15\% | 15\% | 16\% | 3\% | 4\% | 4\% |
|  | Senior Lecturers/Readers/ Lecturers/Other Staff | 43\% | 41\% | 41\% | 39\% | 39\% | 42\% |
|  | Researchers | 42\% | 44\% | 42\% | 58\% | 58\% | 54\% |
| All Academic Cost Centres | Professors | 14\% | 14\% | 15\% | 4\% | 4\% | 5\% |
|  | Senior Lecturers/Readers/ Lecturers/Other Staff | 66\% | 65\% | 64\% | 72\% | 72\% | 71\% |
|  | Researchers | 20\% | 21\% | 21\% | 24\% | 24\% | 24\% |

Table 9: Proportion of all male and female permanent academic staff* at professorial level in selected cost centres 2011/12 (Source: HESA Staff Data)

| Cost Centre | Proportion of Permanent Academic Staff at Professorial Level |  |  |
| :--- | :---: | :---: | :---: |
|  | Male | Female | Overall |
| Mathematical Sciences | $27 \%$ | $7 \%$ | $23 \%$ |
| Physics | $39 \%$ | $16 \%$ | $36 \%$ |
| Electrical Electronic \& Computer Engineering | $20 \%$ | $9 \%$ | $19 \%$ |
| IT \& SS, Computer Software Engineering | $16 \%$ | $7 \%$ | $14 \%$ |
| Chemistry | $32 \%$ | $9 \%$ | $27 \%$ |
| Biosciences | $28 \%$ | $9 \%$ | $21 \%$ |
| All Subjects | $18 \%$ | $6 \%$ | $13 \%$ |

* Permanent academic staff are professors, senior lecturers/readers and lecturers


### 2.4 Age of Staff

Table 10 presents data on the age distribution of men and women by grade for selected cost centres in 2011/12. Figure 6 shows the distribution by ages of male and female staff in the mathematical sciences within each grade in 2011/12, and Figure 7 shows the same distributions across all cost centres in 2011/12. The average age of staff by grade and gender in selected cost centres in 2011/12 is shown in Table and the same data are plotted in Figure 8.

Table 10: Age distribution of all staff by grade and gender in selected cost centres 2011/12
(Source: HESA Staff Data)

| Subject | Grade | Gender | Percentage of staff in each age band (Years) |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | $\begin{gathered} 20 \& \\ \text { under } \end{gathered}$ | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | 51-55 | 56-60 | 61-65 | 66 \& over |
|  | Professors | Male | 0.0 | 0.0 | 0.0 | 1.0 | 5.3 | 13.8 | 19.9 | 21.3 | 18.5 | 15.2 | 5.1 |
|  |  | Female | 0.0 | 0.0 | 0.0 | 1.8 | 9.8 | 15.1 | 20.2 | 14.7 | 17.3 | 17.7 | 3.5 |
|  | Senior Lecturers/ Readers/ Lecturers | Male | 0.4 | 4.7 | 8.9 | 16.4 | 16.1 | 12.7 | 11.0 | 8.5 | 6.7 | 8.6 | 5.9 |
|  |  | Female | 1.1 | 6.2 | 8.9 | 16.4 | 14.3 | 12.6 | 8.1 | 9.3 | 10.0 | 8.4 | 4.8 |
|  | Researchers | Male | 0.0 | 3.0 | 43.8 | 30.9 | 10.6 | 5.1 | 2.6 | 0.8 | 1.1 | 0.9 | 1.1 |
|  |  | Female | 0.0 | 3.8 | 41.0 | 30.5 | 11.7 | 5.5 | 2.2 | 2.6 | 2.0 | 0.0 | 0.6 |
| $\frac{\sqrt[n]{n}}{\frac{\pi}{a}}$ | Professors | Male | 0.0 | 0.0 | 0.0 | 0.7 | 4.1 | 18.2 | 24.5 | 16.8 | 16.8 | 12.1 | 6.9 |
|  |  | Female | 0.0 | 0.0 | 0.0 | 0.0 | 9.6 | 21.2 | 24.9 | 17.2 | 16.6 | 10.5 | 0.0 |
|  | Senior Lecturers/ Readers/ Lecturers | Male | 0.2 | 8.2 | 6.6 | 12.2 | 24.8 | 17.0 | 13.3 | 8.1 | 4.8 | 3.4 | 1.4 |
|  |  | Female | 0.8 | 11.4 | 9.6 | 15.4 | 19.7 | 18.2 | 11.7 | 6.8 | 4.7 | 1.0 | 0.7 |
|  | Researchers | Male | 0.0 | 4.6 | 38.4 | 27.1 | 14.9 | 7.2 | 3.9 | 1.6 | 1.7 | 0.5 | 0.2 |
|  |  | Female | 0.1 | 4.2 | 18.9 | 18.9 | 15.7 | 12.5 | 10.9 | 7.3 | 5.8 | 3.7 | 2.0 |
|  | Professors | Male | 0.0 | 0.0 | 0.0 | 0.1 | 2.9 | 14.2 | 20.6 | 26.2 | 19.3 | 11.6 | 5.1 |
|  |  | Female | 0.0 | 0.0 | 0.0 | 3.2 | 0.0 | 35.6 | 20.7 | 19.7 | 17.5 | 3.2 | 0.0 |
|  | Senior Lecturers/ Readers/ Lecturers | Male | 0.1 | 5.4 | 9.3 | 12.2 | 16.0 | 13.9 | 14.1 | 11.9 | 10.0 | 5.5 | 1.7 |
|  |  | Female | 0.0 | 6.4 | 14.1 | 16.2 | 18.0 | 15.8 | 15.4 | 8.3 | 3.6 | 1.8 | 0.3 |
|  | Researchers | Male | 0.0 | 3.6 | 32.0 | 29.3 | 15.0 | 10.7 | 2.8 | 4.2 | 2.0 | 0.2 | 0.2 |
|  |  | Female | 0.0 | 4.5 | 17.1 | 16.8 | 13.7 | 12.5 | 11.9 | 9.9 | 7.7 | 4.2 | 1.6 |
|  | Professors | Male | 0.0 | 0.0 | 0.0 | 0.4 | 6.3 | 15.8 | 26.7 | 19.9 | 16.3 | 11.5 | 3.1 |
|  |  | Female | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 9.1 | 24.2 | 33.0 | 21.4 | 9.3 | 1.6 |
|  | Senior Lecturers/ Readers/ Lecturers | Male | 0.3 | 4.3 | 6.9 | 11.5 | 13.9 | 13.9 | 14.0 | 13.7 | 12.1 | 7.4 | 2.0 |
|  |  | Female | 0.3 | 2.7 | 7.0 | 10.3 | 13.7 | 17.2 | 16.9 | 14.6 | 12.7 | 4.1 | 0.5 |
|  | Researchers | Male | 0.2 | 5.6 | 33.5 | 28.0 | 12.8 | 8.7 | 4.6 | 3.0 | 2.1 | 1.1 | 0.5 |
|  |  | Female | 0.0 | 5.3 | 25.3 | 25.7 | 17.8 | 10.3 | 6.6 | 3.8 | 3.8 | 1.2 | 0.2 |
|  | Professors | Male | 0.0 | 0.0 | 0.0 | 0.2 | 5.7 | 16.3 | 26.0 | 17.3 | 19.5 | 10.9 | 4.1 |
|  |  | Female | 0.0 | 0.0 | 2.5 | 2.5 | 7.4 | 21.2 | 20.0 | 37.9 | 2.5 | 6.2 | 0.0 |
|  | Senior Lecturers/ Readers/ Lecturers | Male | 0.0 | 5.8 | 4.5 | 13.6 | 16.5 | 19.1 | 17.2 | 11.4 | 7.0 | 3.8 | 1.2 |
|  |  | Female | 0.0 | 10.6 | 12.8 | 19.8 | 17.2 | 15.3 | 11.8 | 6.8 | 4.8 | 0.8 | 0.0 |
|  | Researchers | Male | 0.0 | 3.6 | 38.7 | 33.2 | 10.5 | 7.3 | 3.1 | 1.9 | 1.0 | 0.7 | 0.0 |
|  |  | Female | 0.0 | 4.2 | 20.3 | 20.6 | 13.3 | 12.7 | 11.4 | 7.8 | 5.8 | 2.9 | 1.0 |
|  | Professors | Male | 0.0 | 0.0 | 0.0 | 0.2 | 3.0 | 9.7 | 22.9 | 23.6 | 21.9 | 15.4 | 3.3 |
|  |  | Female | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 11.8 | 23.2 | 28.2 | 22.9 | 11.5 | 2.2 |
|  | Senior Lecturers/ Readers/ Lecturers | Male | 0.1 | 3.6 | 4.4 | 9.8 | 16.3 | 18.1 | 17.6 | 12.9 | 9.9 | 5.7 | 1.6 |
|  |  | Female | 0.0 | 7.8 | 8.7 | 13.9 | 15.6 | 15.9 | 16.3 | 10.4 | 7.6 | 2.8 | 0.9 |
|  | Researchers | Male | 0.0 | 2.3 | 23.7 | 31.9 | 18.7 | 9.6 | 6.4 | 3.6 | 1.9 | 1.3 | 0.7 |
|  |  | Female | 0.0 | 3.8 | 26.7 | 32.3 | 15.5 | 9.3 | 6.5 | 3.2 | 1.7 | 0.8 | 0.2 |
| $\begin{aligned} & \stackrel{n}{U} \\ & \stackrel{0}{0} \\ & \stackrel{n}{3} \\ & \stackrel{\rightharpoonup}{<} \end{aligned}$ | Professors | Male | 0.0 | 0.0 | 0.0 | 0.4 | 3.9 | 12.1 | 20.2 | 20.7 | 20.5 | 17.3 | 4.9 |
|  |  | Female | 0.0 | 0.0 | 0.1 | 0.4 | 3.8 | 12.4 | 21.3 | 24.0 | 22.1 | 13.2 | 2.8 |
|  | Senior Lecturers/ Readers/ Lecturers | Male | 0.1 | 2.5 | 6.7 | 11.5 | 14.4 | 15.5 | 15.0 | 13.0 | 10.9 | 7.8 | 2.7 |
|  |  | Female | 0.1 | 2.5 | 7.4 | 12.5 | 14.6 | 16.2 | 16.2 | 13.9 | 10.3 | 5.0 | 1.4 |
|  | Researchers | Male | 0.1 | 3.5 | 26.3 | 30.2 | 15.7 | 9.4 | 6.1 | 3.8 | 2.5 | 1.5 | 0.9 |
|  |  | Female | 0.0 | 5.3 | 26.1 | 28.0 | 15.2 | 9.6 | 7.0 | 4.5 | 2.8 | 1.1 | 0.4 |

Figure 6: Age of all mathematical science staff by grade in 2011/12 (Source: HESA Staff Data)




Figure 7: Age of all staff in all cost centres by grade 2011/12 (Source: HESA Staff Data)



Table 11: Average age of staff by grade and gender in selected cost centres 2011/12, including teaching only staff (Source: HESA Staff Data)

| Cost Centre | Average Age of Staff (Years) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Professors |  | Senior Lecturers/ Readers/ Lecturers |  | Permanent* Academic Staff |  | Researchers |  |
|  | Male | Female | Male | Female | Male | Female | Male | Female |
| Mathematical Sciences | 52.0 | 51.1 | 42.4 | 42.6 | 45.1 | 43.2 | 32.6 | 33.1 |
| Physics | 51.2 | 49.9 | 40.7 | 38.7 | 44.7 | 40.6 | 35.3 | 33.6 |
| Electrical Electronic \& Computer Engineering | 52.1 | 48.7 | 43.0 | 39.6 | 44.8 | 40.5 | 34.3 | 34.7 |
| IT \& SS, Computer Software Engineering | 51.1 | 52.7 | 44.6 | 44.8 | 45.5 | 45.3 | 34.5 | 36.4 |
| Chemistry | 51.1 | 48.3 | 42.8 | 38.2 | 45.4 | 39.1 | 34.0 | 33.1 |
| Biosciences | 52.9 | 53.0 | 44.7 | 41.5 | 47.0 | 42.5 | 36.0 | 35.2 |
| All Cost Centres | 52.9 | 52.4 | 45.0 | 44.2 | 46.4 | 44.7 | 35.8 | 35.9 |

[^1]Figure 8: Average age of all staff by grade and gender in selected cost centres by grade 2011/12
(Source: HESA Staff Data)


Senior Lecturers/Readers/Lecturers




[^2]
### 2.5 Age and Gender Profiles of Staff

Figure 9: Average age of all staff by grade and gender in selected cost centres by grade 2011/12 (Source: HESA Staff Data)


## Electrical Electronic \& Computer Engineering



## Chemistry



Physics


Information technology \& Systems Sciences,
Computer Software engineering
Information technology \& Systems Sciences,
Computer Software engineering


## Biosciences





* Permanent academic staff are professors, senior lecturers/readers and lecturers and excludes teaching only staff.


### 2.6 Nationality of Staff

Figure 10: Nationality of all staff by grade in selected cost centres 2011/12 (Source: HESA Staff Data)




[^3]Figure 11: Nationality of all academic staff* by gender 2006/07 to 2011/12 (Source: HESA Staff Data)


* Academic staff includes professors, senior lecturers/readers, lecturers and researchers

Table 12: Ranking by numbers of nationalities of all the mathematical sciences staff by grade 2011/12 (Source: HESA Staff Data)

| Rank | Professors | Senior Lecturers/Readers/Lecturers | Researchers | Academic Staff* |
| :--- | :--- | :--- | :--- | :--- |
| $\mathbf{1}$ | United Kingdom | United Kingdom | United Kingdom | United Kingdom |
| $\mathbf{2}$ | Germany | Germany | Germany | Germany |
| $\mathbf{3}$ | Russia | China | France | Russia |
| $\mathbf{4}$ | United States | Greece | China | China |
| $\mathbf{5}$ | Australia | Russia | United States | United States |
| $\mathbf{6}$ | Netherlands | France | Greece | Italy |
| $\mathbf{7}$ | Denmark | United States | Russia | Greece |
| $\mathbf{8}$ | China | Ireland | Netherlands | France |
| $\mathbf{9}$ | France | India | Poland | Netherlands |
| $\mathbf{1 0}$ | Belgium | France | Ireland |  |

[^4]
### 2.7 Ethnicity of Staff

Table 13: Ethnicity of all UK national academic staff* in selected cost centres 2011/12 (Source: HESA Staff Data)

| Ethnicity |  | $\frac{\ddots}{n}$ |  |  | $$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| White | 87.7\% | 86.9\% | 77.0\% | 85.4\% | 87.4\% | 87.0\% | 87.3\% |
| Asian or Asian British - Indian | 1.2\% | 1.4\% | 1.9\% | 1.8\% | 1.3\% | 1.8\% | 1.6\% |
| Asian or Asian British - Pakistani | 0.3\% | 0.3\% | 0.6\% | 0.8\% | 0.6\% | 0.7\% | 0.5\% |
| Asian or Asian British - Bangladeshi | 0.2\% | 0.1\% | 0.2\% | 0.1\% | 0.1\% | 0.2\% | 0.2\% |
| Other Asian background | 0.8\% | 0.7\% | 2.6\% | 1.5\% | 0.7\% | 0.7\% | 0.8\% |
| Black or Black British - African | 0.2\% | 0.2\% | 0.6\% | 0.9\% | 0.3\% | 0.4\% | 0.5\% |
| Black or Black British - Caribbean | 0.0\% | 0.0\% | 0.3\% | 0.2\% | 0.2\% | 0.3\% | 0.5\% |
| Other Black background | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.1\% | 0.1\% |
| Chinese | 1.7\% | 1.3\% | 5.3\% | 2.3\% | 1.5\% | 1.3\% | 1.1\% |
| Other and mixed Ethnic background | 1.9\% | 1.4\% | 3.6\% | 2.4\% | 1.6\% | 1.9\% | 2.0\% |
| Unknown | 6.0\% | 7.6\% | 7.7\% | 4.6\% | 6.3\% | 5.6\% | 5.4\% |

* Academic staff are professors, senior lecturers/readers, lecturers and researchers

Table 14: Ethnicity of all UK national academic staff in the mathematical sciences cost centre by grade 2011/12 compared with the ethnic groups in England and Wales in 2011
(Sources: HESA Staff Data and England and Wales Census 2011)

| Ethnicity* | Grade |  |  |  | E |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | Professor | Senior Lecturer/ <br> Reader/Lecturer | Researcher | Overall | Ether <br> and Wales 2011 |
| White | $94.5 \%$ | $93.3 \%$ | $91.0 \%$ | $93.3 \%$ | $86.0 \%$ |
| Asian | $1.8 \%$ | $2.8 \%$ | $2.9 \%$ | $2.6 \%$ | $6.8 \%$ |
| Black | $0.2 \%$ | $0.3 \%$ | $0.4 \%$ | $0.3 \%$ | $3.3 \%$ |
| Chinese | $2.6 \%$ | $1.4 \%$ | $1.9 \%$ | $1.8 \%$ | $0.7 \%$ |
| Other/Mixed | $0.9 \%$ | $2.1 \%$ | $3.8 \%$ | $2.0 \%$ | $3.2 \%$ |

* The unknowns have been excluded to allow comparison with the population data


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## Notes

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[^0]:    1 Assignment of departments to academic cost centres 2001-02, (http://www.hefce.ac.uk/pubs/hefce/2002/02_25.htm)
    2 http://www.hesa.ac.uk/dox/circulars/Cost_Centres/HESA_mapping_of_old_Cost_Centres_to_new_Cost_Centres_to_REF_UoAs.pdf

[^1]:    * Permanent academic staff are professors, senior lecturers/readers and lecturers

[^2]:    * Permanent academic staff are professors, senior lecturers/readers and lecturers

[^3]:    * Academic staff includes professors, senior lecturers/readers, lecturers and researchers

[^4]:    * Academic staff includes professors, senior lecturers/readers, lecturers and researchers

