



UK Research  
and Innovation

# UKRI diversity data for funding applicants and awardees

## 2020–21 update

Executive Summary



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# 1.0 Foreword

UKRI publishes annual diversity data on applicants and grant award holders, to aid transparency in our funding and enable high-level monitoring of trends. This report provides data for the 2020-21 financial year, and adds to our previous publications providing **diversity data**<sup>1</sup> and **detailed ethnicity analysis**<sup>2</sup> for the 2019-20 financial year.

The report primarily presents a high-level annual overview of our diversity data at UKRI level. Interpreting our diversity data is complex, however, as it is based upon thousands of applications to hundreds of funding opportunities administered by UKRI's 7 constituent research councils. Annual changes in the types of funding opportunity that are launched, or external factors such as the COVID-19 pandemic, impact upon our data and the interpretation of trends over time.

Where possible, data for individual research councils is provided in the accompanying data tables. Figures from analysis at council level, funding stream level or funding opportunity level are also discussed where they can inform our understanding of UKRI-level trends. Building this more detailed understanding is vital to support priority 6.2 of our 5-year Strategy, published in March 2022,<sup>3</sup> which focused on strengthening our insights and analyses, to inform how we act.

## 1.1 Key findings

1. For the first time, data on the intersection of age, ethnicity, and disability with gender is included. Breakdowns by gender and ethnicity show that white males received the largest percentage of awards as both principal investigators (PIs) and co-investigators (CIs), receiving 57% of PI awards and 49% of CI awards.
2. Representation of female grant holders overall was 28% for PIs and 33% for CIs. For both role types, this is below one benchmark for the wider UK academic population, at 42%<sup>4</sup>. For fellows representation of female grant holders was above this benchmark, at 49%.
3. After the white ethnic group at 81%, the highest percentage of PI grant holders was from the Asian ethnic group, at 8%. The percentages of PI grant holders from the black, mixed, and other ethnic groups were lower, at 1%, 2% and less than 0.5% respectively.
4. The award rate for PIs was lowest for the black and other ethnic groups at 13% and 12% respectively. This compares with award rates of 29% for the white ethnic group, 23% for the mixed ethnic group and 21% for the Asian ethnic group.
5. The percentage of PI and CI grant holders reporting a known disability remains low, at 2%. This is below benchmarks for wider academic staff at 4% and the wider labour market (employed) population, at 13%.<sup>5</sup>
6. Disability status was not disclosed for 6% of PI grant holders and 6% of CI grant holders. Ethnicity was not disclosed for 8% of PI grant holders and 9% of CI grant holders. Further investigation is needed to understand why there are higher levels of non-disclosure for disability and ethnicity than for the other legally protected characteristics, and the impact that this has on our data.
7. Among UKRI's funded postgraduate research students, representation of female students and students reporting a disability is below benchmarks for the wider postgraduate research student population<sup>6</sup>. 45% of UKRI studentship starts were female compared with a benchmark of 50%, and 8% reported a disability compared with a benchmark of 12%. A high-level of 'non-disclosure' or 'unknown' for ethnicity remains for UKRI-funded studentship starts, at 32%.

## 1.2 Introduction

We are committed to publishing diversity data on applications and awards relating to 4 diversity characteristics<sup>7</sup> (age, disability, ethnicity, and gender<sup>8</sup>) annually, as part of our business-as-usual activities. The data is broken down by role type (principal investigators (PIs), co-investigators (CIs), fellows and by studentship starts), and the data covers 7 financial years (2014-15 to 2020-21). Discussion within this report is primarily focused upon data for the latest financial year. Developing the capability to explore trends over time is an important next step in improving our analysis.

We publish this data to aid transparency in our funding and enable high-level monitoring of trends. For 2020-21, the data continues to reveal under-representation of females, ethnic minority groups and individuals with a declared disability when compared to a benchmark for the UK academic community and the UK workforce. We are using this data, together with other evidence, and engagement with the research and innovation community, to support priority 6.2 of our 5-year strategy published in March 2022.<sup>3</sup> This priority aims to strength our insights and analyses to inform how we act, drawing on the breadth and depth of our expertise to respond to the rapidly changing research and innovation landscape.

External benchmark data is used to provide context and comparison to our diversity data. We use it to understand how the diversity of our applicants and awardees compares to the make-up of those eligible to apply for our funding, and the wider population. We have used the latest data available from Higher Education Statistics Agency (HESA) for the diversity population of the UK Higher Education Institutes (HEIs), and the ONS Labour Force Survey, which provides the percentages of people from each ethnic group who are employed in the UK (see Annex A of the main report for more detail). It should be noted that neither benchmark is a perfect comparator: some UKRI funding opportunities allow for international applicants or researchers outside of UK HEIs, while student benchmarks for the HESA data are for UK-domiciled students only.

The 2020-21 financial year was unprecedented, with the impact of the COVID-19 pandemic, and so in many ways it was an atypical year for funding applications. Our independent process review<sup>9</sup> of UKRI's response to COVID-19 revealed that we received a substantially larger volume of applications at a much faster pace than normal, with COVID-19 response applications adding around 30% to our typical annual application volume. Success rates were also impacted, with an award rate of just over 10% for the main COVID-19 response calls, compared with an overall award rate for UKRI of 21% (although this varies substantially by competition, award type, and council).

Emergency calls set up as part of our response to COVID-19 are not included within the data in this report.<sup>10</sup> Separate analysis on the diversity profile for these calls is included within Annex D of the independent process review.<sup>11</sup> Early analysis of data for UKRI does not indicate substantial changes in the diversity profile of applicants and awardees because of the pandemic. However, further work, including the monitoring of trends in future years, will enable us to understand the impact of the COVID-19 pandemic on funding applicants and awardees more fully.

An impact evaluation for our COVID-19 response is ongoing and will explore to what extent (and how) projects have fostered diverse and inclusive research and innovation environments.

We have started work to understand appropriate methods for estimating statistical significance, to use in future reports.

### 1.3 The impact of council-level differences on UKRI-level data

The aggregate UKRI data used in this report contains a large variation in application numbers, award rates and award amounts by diversity characteristics across UKRI's funding portfolio, including between research councils. These reflect differences in process and reporting methods. The variation in award value can be due to the higher consumable and equipment costs that are necessary for some areas of research. Councils are looking into their data individually, and this substantial evidence base is directly influencing EDI workplans.

The distribution of applicants by number across councils for 2020-21 is: AHRC, 3,850; BBSRC, 3,585; EPSRC, 7,150; ESRC, 4,625; MRC, 7,845; NERC, 4,410; STFC, 1,170; Pan-UKRI (centrally run funding opportunities), 3,305. MRC has the highest number of applicants compared to the other councils with STFC the fewest.

Within this distribution of applicants there are differences in diversity characteristics and application patterns across the seven research councils. Figure 1 shows the distribution of UKRI's applicants across age, disability, ethnicity, and gender by the seven research councils and Pan-UKRI.

This highlights the fact, for example, that at UKRI level the 40-49 age group has the highest proportion of applicants. MRC and EPSRC have a higher number of applicants aged 40-49 than the other councils. EPSRC has the highest number of applicants across all age groups, with STFC and Pan-UKRI funds having the lowest.

The white ethnic group has the highest number of applicants. STFC and Pan-UKRI have the lowest number of applicants in this group, and Asian applicants to EPSRC are higher than both. In terms of gender, AHRC and ESRC have similar numbers of male and female applicants.

In 2020-21, overall award rates for research and innovation grants ranged from 17% at MRC to 72% at STFC. Similarly, median award amounts for principal investigators ranged from approximately £135,250 at AHRC to approximately £593,536 at MRC.<sup>12</sup>

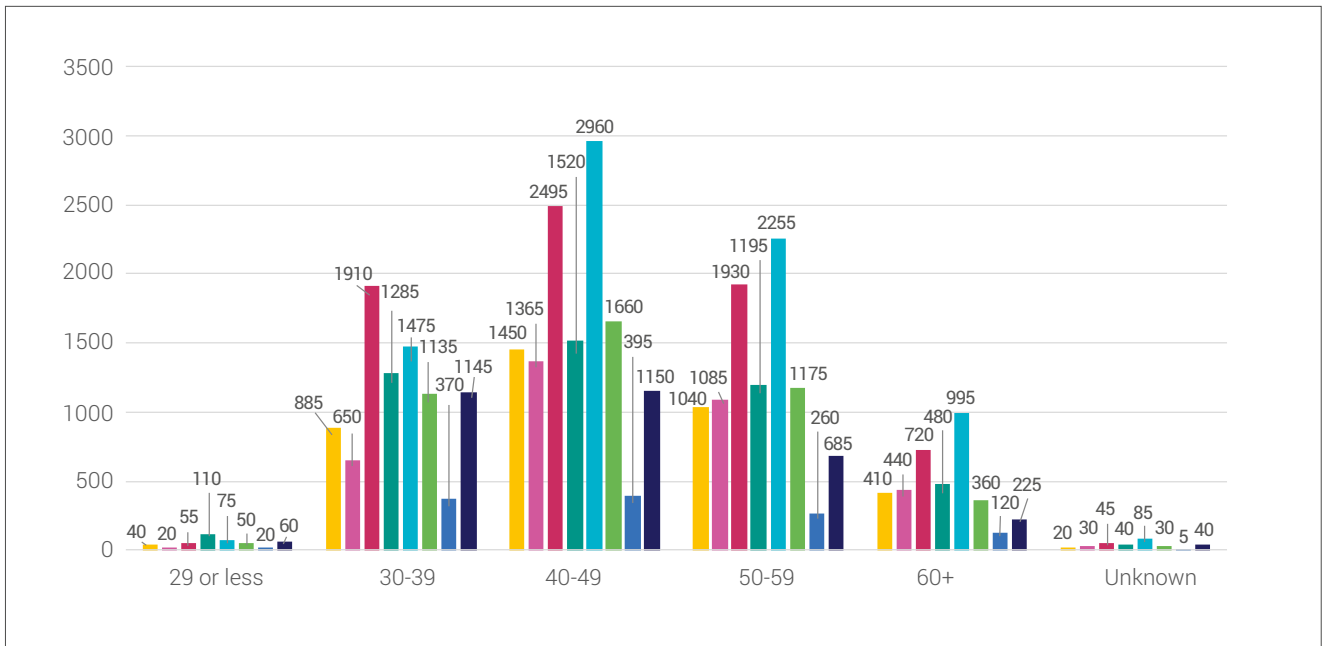
At UKRI level in 2020-21, the median award amount for male PIs was approximately £400,000, compared with approximately £300,000 for female PIs. However, the council level data shows that this difference is not consistent across all the councils. At AHRC, BBSRC, EPSRC and NERC, differences in median award amount by gender for PIs were smaller than at UKRI level (all the differences were less than £40,000). Differences were larger at ESRC, MRC and STFC, where the median award amount was higher for male PIs than for female PIs.

Award rates at UKRI level were also higher for PI males in 2020-21, at 29% compared with 25% for PI females. However, at council level the picture is mixed. PI award rates by gender were very similar (within 2 percentage points (pp) of each other) at all councils except STFC, where PI females had an award rate 9pp higher than males. The higher award rate for males at UKRI level is a consequence of a higher percentage of male applicants and awardees at EPSRC and STFC, which are also the two councils with the highest award rates.

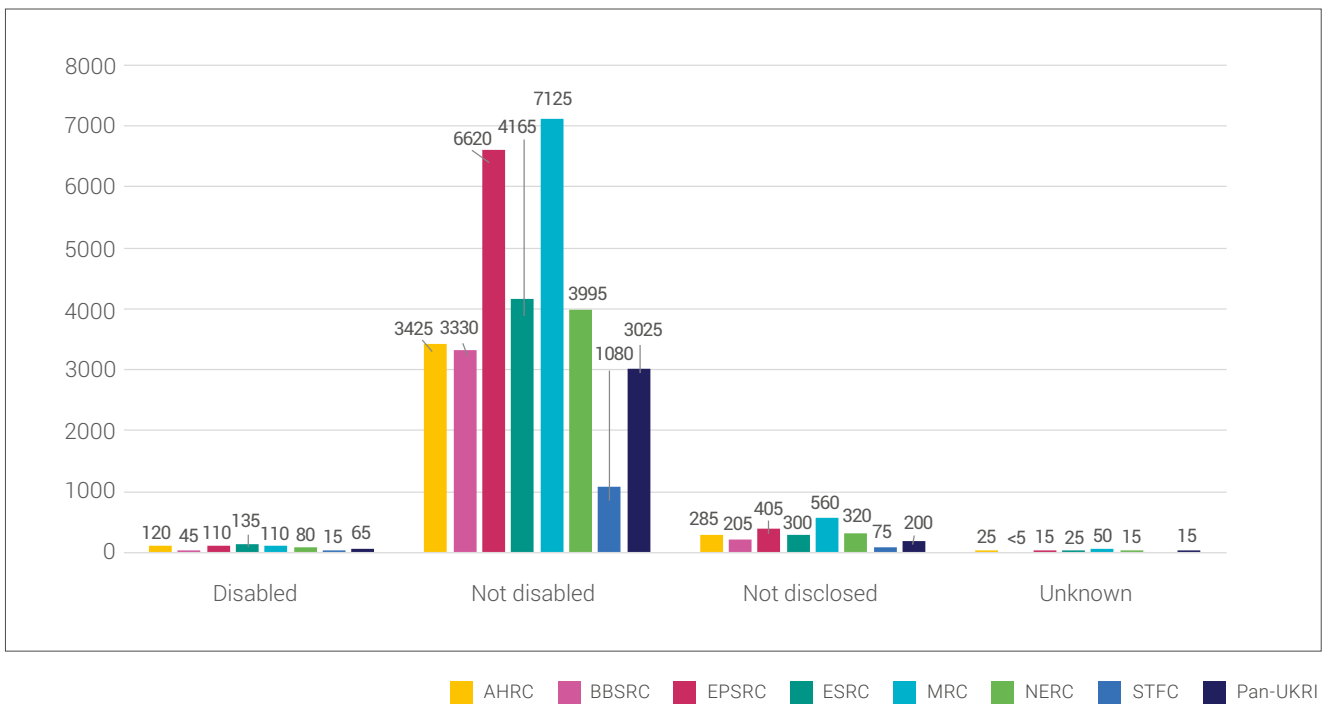
It is therefore important to consider council-level data alongside UKRI-level data, when comparing amounts and award rates between demographic groups. We advise against using these findings alone to draw causal inferences regarding the relationship between the diversity characteristics and application and award rates. Further analysis is needed to control for the effects of other background factors.

**Figure 1: The number of total applicants to UKRI by diversity characteristic for the research councils (2020-21)**

**Age**



**Disability**

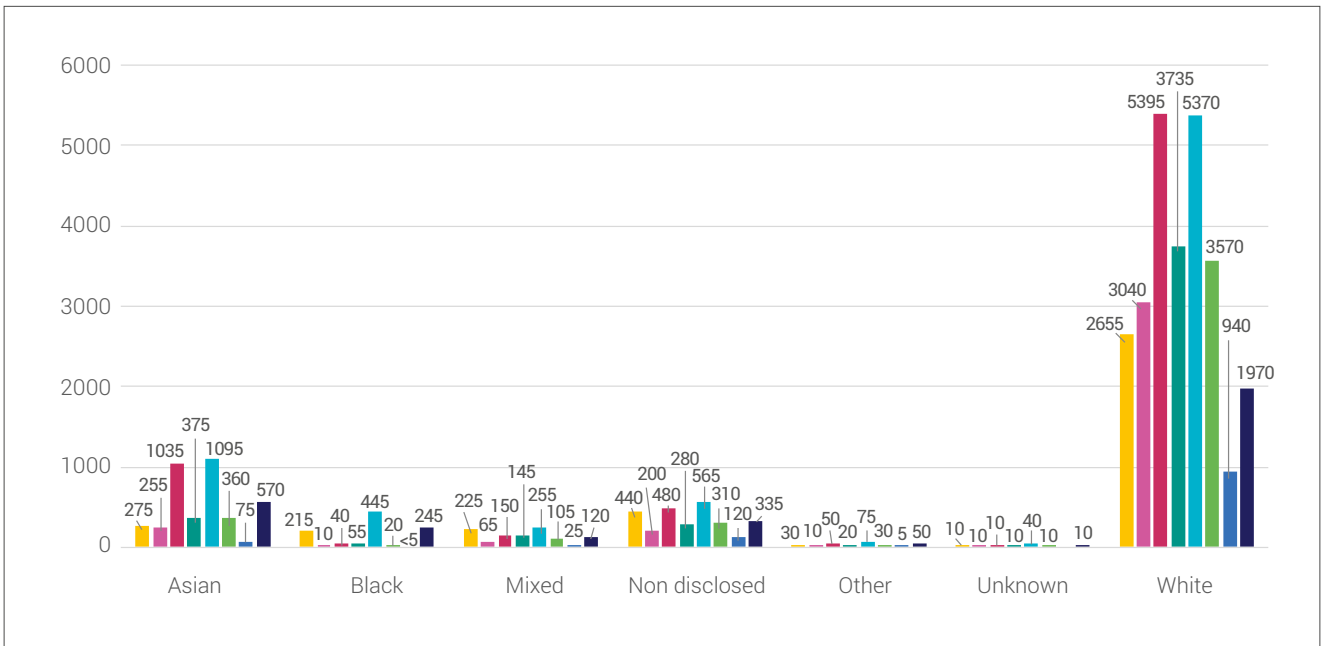


■ AHRC 
 ■ BBSRC 
 ■ EPSRC 
 ■ ESRC 
 ■ MRC 
 ■ NERC 
 ■ STFC 
 ■ Pan-UKRI

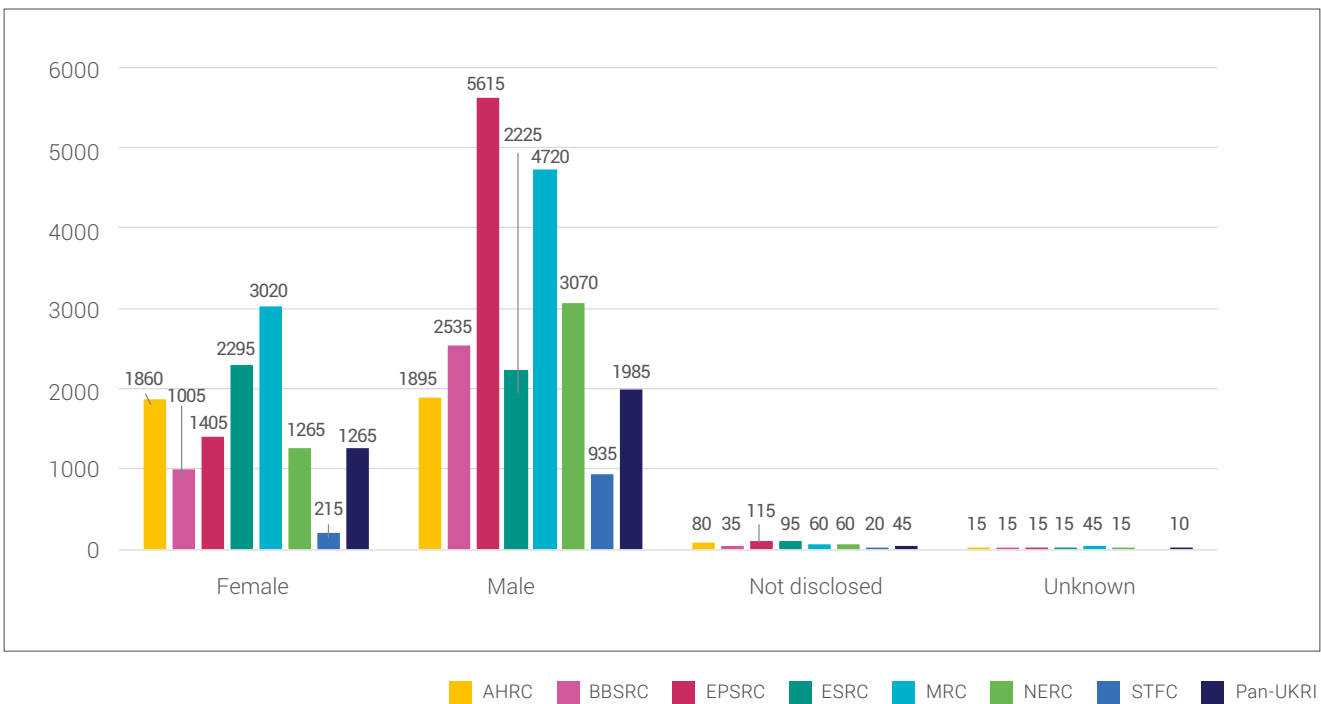
Source: UKRI's competitive funding decision data (2020-21)

Notes: The category 'Pan-UKRI' includes applications to funding opportunities which are hosted centrally by UKRI, including, Future Leadership Fellowships, Global Challenge Research Funding (GCRF), Innovation Scholars and the Newton Fund Impact Scheme.

## Ethnic group



## Gender



■ AHRC 
 ■ BBSRC 
 ■ EPSRC 
 ■ ESRC 
 ■ MRC 
 ■ NERC 
 ■ STFC 
 ■ Pan-UKRI

Source: UKRI's competitive funding decision data (2020-21)

Notes: The category 'Pan-UKRI' includes applications to funding opportunities which are hosted centrally by UKRI, including, Future Leadership Fellowships, Global Challenge Research Funding (GCRF), Innovation Scholars and the Newton Fund Impact Scheme.

## 1.4 Age

The percentages of applicants and awardees by age categories for PI, CI and Fellows are consistent year on year. The largest proportion of applications for PIs and CIs is in the 40-49 age group, with 38% and 37% respectively, while for fellows the largest representation is in the 30-39 age group with 65%.

## 1.5 Disability

The proportion of both PI and CI applicants reporting a disability in 2020-21 was consistent with the previous year at 2%. This is below benchmarks for wider academic staff at 5% and the wider labour market (employed) population, at 13%.<sup>5</sup> Disability status was also 'unknown' or 'not disclosed' for between 6% and 8% of our applicants and awardees. This is higher than the level of PI and CI applicant and awardee non-disclosure for age and gender (ranging from 0% to 2%), and higher than non-disclosure for disability in the benchmark HESA data at (3%). The higher level of non-disclosure compared with other characteristics further complicates interpretation of the data. Further work is needed to understand both the reasons why applicants may choose not to disclose their disability status, and the nature of the barriers faced by disabled individuals.

## 1.6 Ethnicity

In this report, we have moved away from using binary ethnicity categories (ethnic minorities and white) and have disaggregated the data by ethnicity as much as possible. Due to the small number of awards at the level of individual ethnicities, data is primarily presented and discussed for the broad ethnic groups (Asian, black, mixed, other, and white).

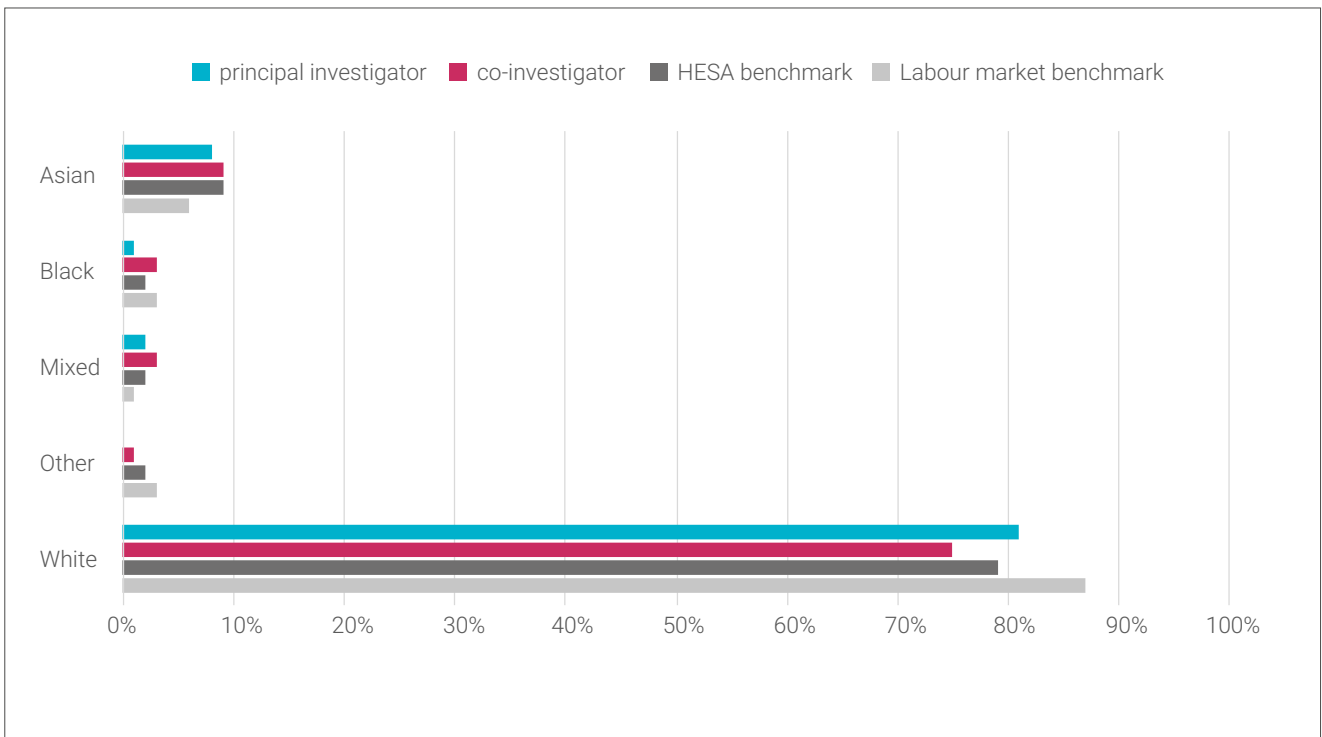
The breakdown of applicants by ethnic group shows that the white group (at 78%) has the highest percentage, followed by the Asian ethnic group (10%), black (2%), mixed (2%), other (1%) and not disclosed (7%). When looking at award rates by number by ethnic group for PIs, the white ethnic group had the highest award rate in 2020-21 at 29%, followed by the mixed ethnic group at 23% and the Asian ethnic group at 21%. Award rates were lowest for the black and other ethnic groups, at 13% and 12% respectively. Differences in award rate by ethnic group were smaller for CIs, where the award rate was highest for the white and black ethnic groups at 29% and 28% respectively, and lowest for the other ethnic group at 21%.

After the white ethnic group, the Asian ethnic group has consistently received the highest percentage of awards for both PIs and CIs. In 2020-21, 9% of CI awardees and 8% of PI awardees were from the Asian ethnic group.

Figure 2 shows that the white ethnic group is the most prevalent for PIs (81%) and CIs (75%): this is below the benchmark for the wider labour market (87%) and equivalent to the wider academic population (80%). The representation of both PIs and CIs is 3% for the mixed ethnic group, which is higher than the wider labour market (1%) and the wider academic population (2%). The black ethnic group is the lowest for PIs (1%) and CIs (3%), this is the same as the 3% benchmark for the wider labour market and higher than the wider academic population (2%). Asian CIs (9%) is the same as the benchmark for the wider academic population and higher than the wider labour market (6%).



**Figure 2: Percentage of awardees in the Asian, black, mixed, and other ethnic groups, compared with the HESA and labour market benchmarks.**

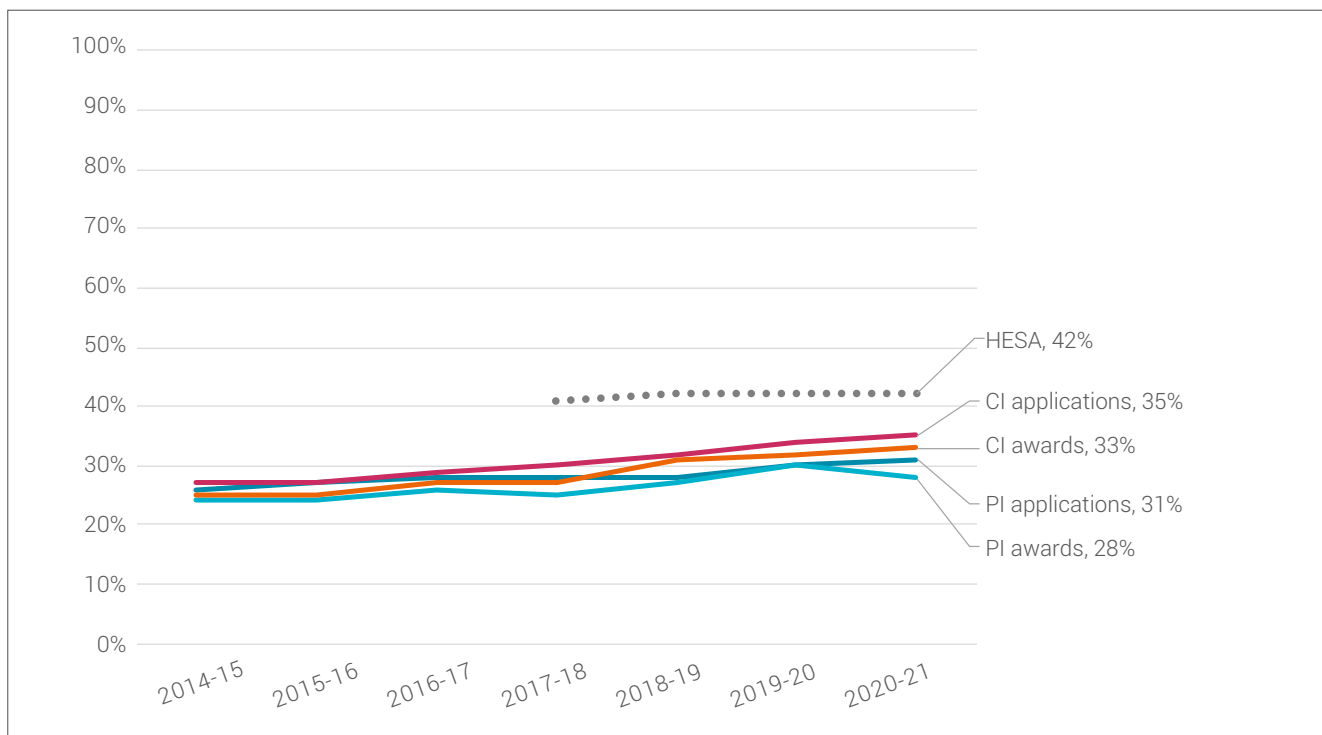


Source: UKRI's competitive funding decision data, Higher Education Statistics Agency (HESA) staff data (2020/21) and ONS labour force survey by ethnic group (2020-21) <sup>4</sup>

## 1.7 Gender

The percentage of both applicants and awardees reporting their gender as female has increased for the CI role type by 2 percentage points (pp) since 2014-15. For PIs there is no obvious trend, and whilst the percentage of female PI applications has increased (+5pp overall), the percentage of female awardees has fluctuated. Figure 3 shows that female representation was below a benchmark for the wider academic population in all the last four years. In 2020-21, female representation within the HESA benchmark was 42%, compared with 33% for CI awards and 28% for PI awards.

**Figure 3: The percentage of female applicants and awardees by role type and year for principal investigators (PIs) and co-investigators (CIs) alongside a benchmark for the wider academic population (2014-15 to 2020-21)**



Source: UKRI's competitive funding decision data (2014-15 to 2020-21) and Higher Education Statistics Agency (HESA) staff data (2017/18 to 2020/21)<sup>4</sup>

## 1.8 Fellows

Due to the low number of UKRI fellows compared with other role types (approximately 525 fellowships were awarded in 2020-21 compared with thousands of awards for PIs and CIs), outcomes for fellows are more susceptible to year-on-year changes in individual funding opportunities. One funding opportunity which has a large impact on UKRI's fellowship data is the ESRC's postdoctoral fellowship call, which accounted for 24% of all UKRI fellowships awarded in 2020-21.<sup>14</sup>

Diversity characteristics of ESRC's postdoctoral fellows also differ from those of other UKRI fellows, with over 70% being female and 11% reporting a known disability in 2020-21. This compares with 42% of all other fellows being female and 4% reporting a disability. Impacts of this funding opportunity will, therefore, more strongly affect comparisons between groups against these characteristics.

The impact of ESRC's postdoctoral fellowship on average award amounts can be seen this year in breakdowns by gender. At the UKRI level in 2020-21, the median award amount for male fellows was approximately £840,000, compared with approximately £223,000 for female fellows. If ESRC's postdoctoral fellowship is removed from the data,

differences in award amounts between the two groups are much smaller, with a median award amount of approximately £961,000 for male fellows and £921,000 for female fellows.

Similarly, the impact of this funding opportunity can be seen in the data for disability, if we look at award rates. In 2020-21 the award rate for applicants reporting a disability was 34% compared with 22% for applicants reporting no disability. If ESRC's postdoctoral fellowships are removed from the data, the difference in award rates between the two groups is much smaller, with an award rate of 22% for applicants reporting a disability and an award rate of 18% for applicants reporting no disability. If data for unsuccessful applicants for this funding opportunity was available, it would not artificially have a 100% award rate, and we might not see such large differences in award rate against these characteristics.

The impact of this funding opportunity on UKRI's data is an example of the complexity and limitations of our data, and highlights the importance of analysing trends at a more granular level. Due to the small number of awardees, we must be particularly cautious when drawing conclusions about UKRI-level fellowship data.

## 1.9 Intersectionality

For the first time, this report contains data on the intersection of age, disability and ethnic group with gender. Data is currently limited to one financial year (2020-21), however, and so developing our intersectional analysis to include trends over time is an important next step. We have initially focused on the intersection of the characteristics with gender, due to the small number of applicants and awardees in some groups relating to the other characteristics.

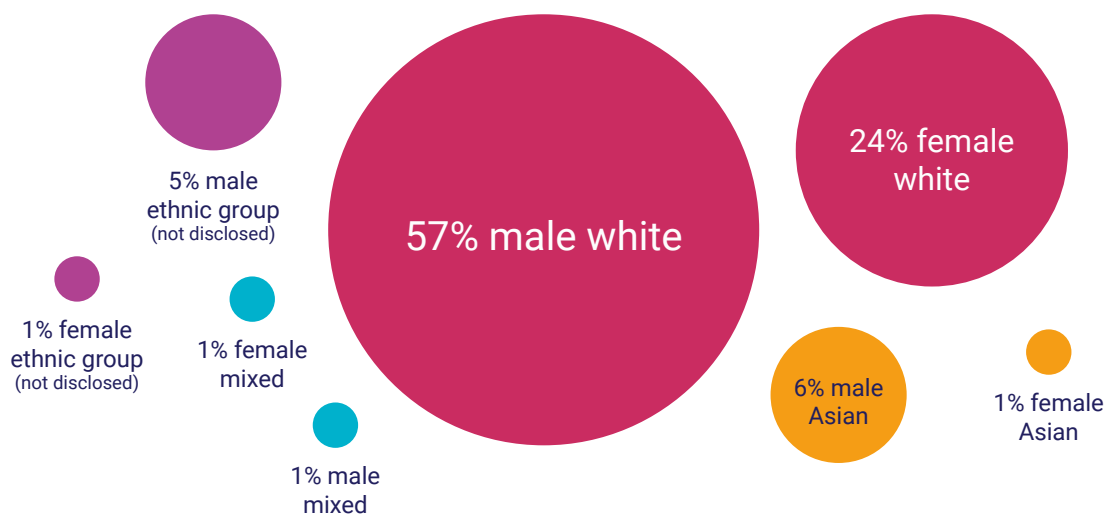
Figure 4 shows the composition of awardees for PIs and CIs in 2020-21. For PIs, the largest group was white males, receiving 57% of awards, followed by white females, receiving 24% of awards. The next

largest group was Asian males with 6% of awards. The remaining groups each received between less than 0.5 and 1% of awards. Gender and ethnic group was either 'unknown' or 'not disclosed' for the remaining 7% of awardees.

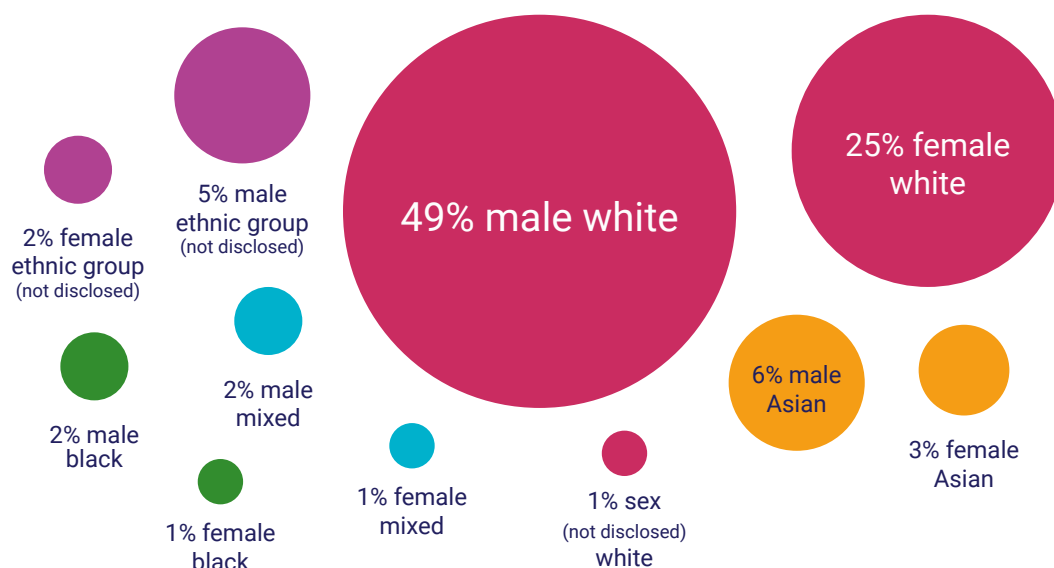
The composition of CI awardees was similar, with the highest percentage of awards being received by white males (49%), white females (25%) and Asian males (6%). Representation of Asian females amongst CI awardees was higher than for PI awards, at 3%. Similarly, although still low overall, representation of black males (2%), black females (1%) and males reporting a mixed ethnicity (2%) was higher for the CI than for the PI role.

**Figure 4: The composition of principal investigator (PI) and co-investigator (CI) awardees by ethnic group and gender (2020-21)**

### Principal investigators



### Co-investigators



Source: UKRI's competitive funding decision data (2020-21)

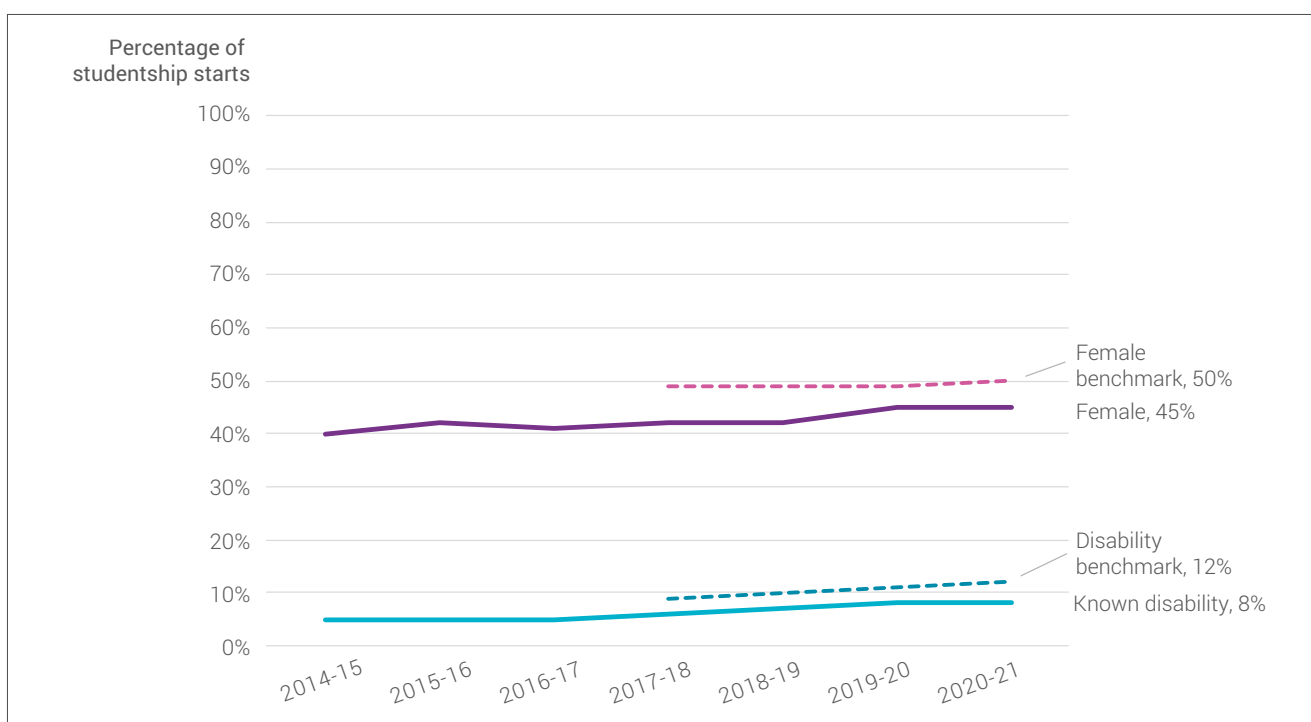
## 1.10 Studentships

In 2020-21 UKRI had 5,370 new studentship starts. There is a large variation in the distribution of the studentship starts across the research councils. EPSRC has 47% of all new studentships starts, while it ranges from 6% to 13% for all other councils.

Within UKRI-funded postgraduate research students, representation of female students and students reporting a known disability is consistent with

previous years (Figure 5). However, representation of both females and those reporting a known disability remains below a benchmark for the wider postgraduate research population. This year, 45% of UKRI's studentship starts were female, compared with a benchmark of 50%, and 8% of UKRI's studentship starts reported a known disability, compared with a benchmark of 13%.

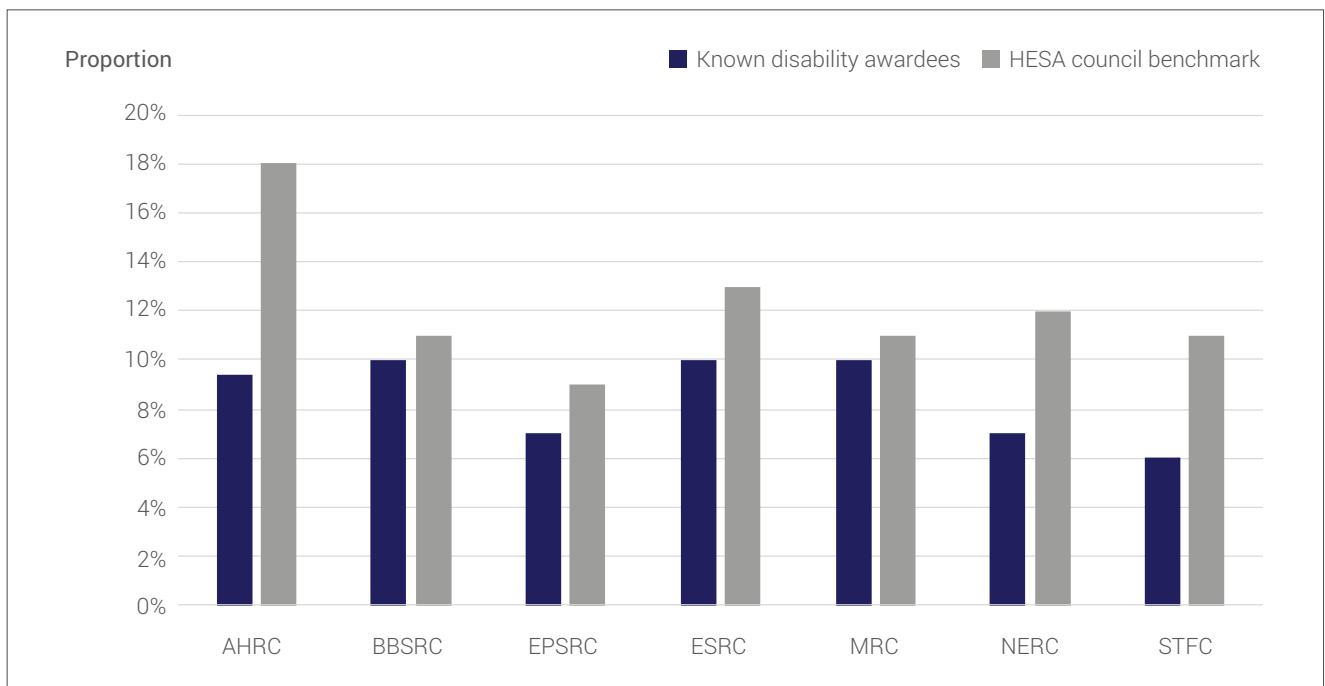
**Figure 5: The percentage of female students and students reporting a known disability by year compared with a benchmark for the wider postgraduate research population (2014-15 to 2020-21)**



Source: UKRI's competitive funding decision data and Higher Education Statistics Agency (HESA) student data (2017-18 to 2020-21)<sup>7</sup>

While the average disability HESA benchmark is 12% there is variation at the research council level, with the benchmark ranging from 18% for AHRC to 9% for EPSRC. For all research councils those reporting a known disability remain below their benchmark for the wider postgraduate research population.

**Figure 6: The percentage of studentship starts by research council reporting a known disability compared with a benchmark for the wider postgraduate research population (2020-21)**



Source: UKRI's competitive funding decision data and Higher Education Statistics Agency (HESA) student data (2020-21)<sup>4</sup>

The percentage of UKRI-funded postgraduate research studentship starts where ethnicity is 'unknown' or 'not disclosed' remains high in 2020-21 at 32% compared to the HESA benchmark of 4%. This means that it continues to be very challenging to draw conclusions on the representation of ethnic minority groups within our studentships.

The main diversity data report, which goes into greater depth about some of these findings, is published here: <https://www.ukri.org/what-we-offer/supporting-healthy-research-and-innovation-culture/equality-diversity-and-inclusion/diversity-data/>

## References

1. <https://www.ukri.org/publications/diversity-results-analysis-for-ukri-funding-data-financial-years-2014-15-to-2019-20/>
2. <https://www.ukri.org/wp-content/uploads/2021/10/UKRI-061021-EthnicityAnalysisReportFinal.pdf>
3. <https://www.ukri.org/wp-content/uploads/2022/03/UKRI-210422-Strategy2022To2027TransformingTomorrowTogether.pdf>
4. Benchmarks for the wider academic population are constructed from Higher Education Statistics Agency (HESA) data and include academic staff on a contract that includes 'both teaching and research'. Both fixed-term and permanent contracts are included, as are full-time and part-time work patterns. Contracts which are 'research only', 'atypical' or 'dormant' are excluded. Differences in time periods, geographic coverage and inclusion criteria mean that the HESA population is not directly comparable with those who are funded by UKRI. Figures are provided as an approximate benchmark to help with interpreting the data. Difference from the benchmark has three sources: differing funding levels across the councils; the fact that not all those who are funded are UK based, making the HESA benchmark less relevant, and the fact that there may be success rate differences associated with gender.
5. <https://www.ons.gov.uk/employmentandlabourmarket/peopleinwork/employmentandemployeetypes/datasets/labourmarketstatusofdisabledpeoplea08>
6. Benchmarks for wider postgraduate research students are constructed from Higher Education Statistics Agency (HESA) data and include doctoral students and research-based masters students. Differences in time periods, geographic coverage and inclusion criteria mean that the HESA population is not directly comparable with those who are funded by UKRI. Figures are provided as an approximate benchmark to help with interpreting the data.
7. We are reviewing our data collection processes through the development of the new funding service (<https://www.ukri.org/apply-for-funding/how-were-improving-your-funding-experience/improving-how-you-apply-for-funding/>). Within this, we will review how data is collected against these four characteristics and will also widen data collection to include other protected characteristics.
8. The current funding service asks applicants to provide information on gender, with 'male', 'female' and 'not disclosed' as response options. For this reason, we use the terminology 'male' and 'female' to describe gender categories throughout this document. We appreciate that gender and sex terminology is more nuanced and highly personal, and will reflect this through data collection in the new funding system.
9. <https://www.ukri.org/news/independent-process-review-of-ukris-response-to-covid-19/>
10. Covid RRR are not included. There are 3 Covid funding opportunities included: MS Covid SPF 2020; SPF Covid 19 Rapid Knowledge, and UKRI GCRF urgency Covid funding.
11. <https://www.ukri.org/news/independent-process-review-of-ukris-response-to-covid-19/Appendix-D-EDI-analysis>
12. <https://www.ukri.org/what-we-offer/what-we-have-funded/competitive-funding-decisions/>
13. ESRC's postdoctoral fellowships are awarded to students for one year of postdoctoral study and, the award amount is capped at £100,000. The application process for these fellowships is also run by the Doctoral Training Partnership. As such, application data for these fellowships is not held by UKRI and the award rate for this call artificially appears as 100% in UKRI's data.





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### **Accessibility**

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