Research Councils UK

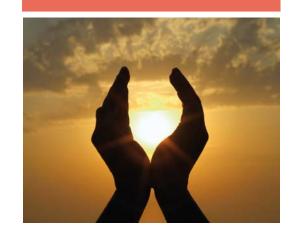
Excellence
with impact





Career Tracking of Doctoral Graduates from UK HEIs

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Research Councils UK (RCUK)





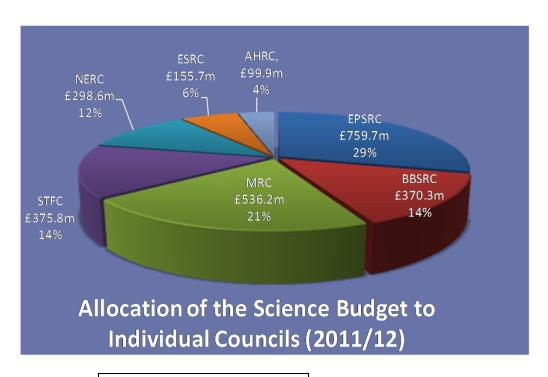










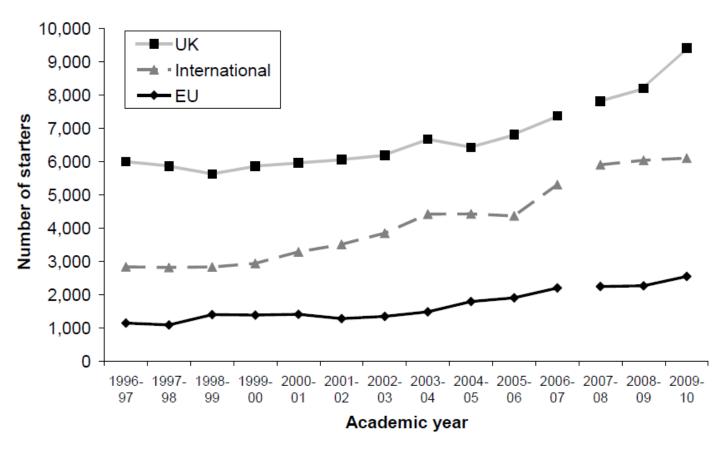


Total budget: 10/11 £2.55 billion 11/12 £2.60 billion 12/13 £2.57 billion (Figures 2011/12)



PhD starters by Domicile 1996-07 to 2009-10*

Figure 3 Number of PhD starters on a full-time course, by domicile



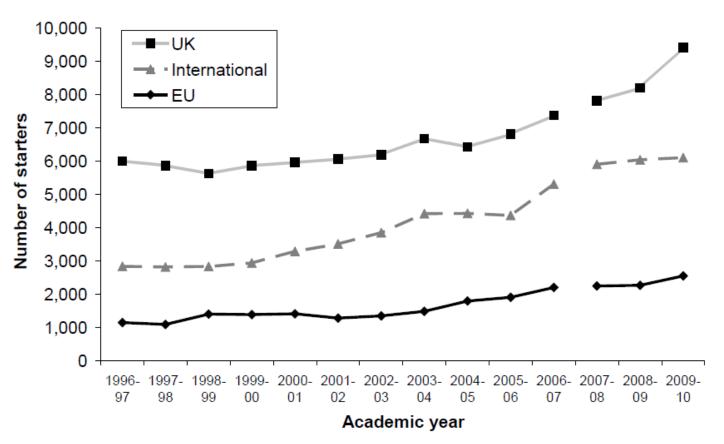
Note: EU category excludes those domiciled in the UK.

*PhD Study: Trends and profiles 1996-97 to 2009-10 (HEFCE 2011)



PhD starters by Domicile 1996-07 to 2009-10*

Figure 3 Number of PhD starters on a full-time course, by domicile



Notes

RCUK funding: 5,500 of 17,500 doctoral graduates p.a.

Mature PhDs significant especially in AHSS

Rest of world: ~ 42% overseas PhDs (30% non-EU, 13% other EU)

Current doctoral candidates 60,000 FT, 23,000 PT

Note: EU category excludes those domiciled in the UK.

*PhD Study: Trends and profiles 1996-97 to 2009-10 (HEFCE 2011)



Career tracking – Options analysis 2008



Doctoral Career Pathways, Skills and Training - Options analysis for the collection of information about the early careers of UK Doctoral Graduates

A new survey needed to answer questions including:

- Motivations for undertaking PhD training and initial career aspirations:
- Employment history and reasons for changes in career:
- Current employment:
- Skills development:
- Job satisfaction:
- Future career aspirations:
- 'Impact' of career:

Advice: Existing data-sources cannot provide sufficient information, nor coverage of the target population.

Options

- X Stand alone survey (c.f. USA SED)
- ✓ Piggy-back on existing
 Destinations of Leavers from HE
 (DLHE survey)

Impact: a demonstrable contribution to economic growth or policy development.

RESEARCE COUNCILS

The RCUK Cohort study in outline

- Three cohorts: all UK and EU domiciled doctoral graduates from UK HEIs in 2004/05, 2006/07 and 2008/09
 - First survey at 6-18 months after graduation HESA
 DLHE* survey e.g. early 2005
 - Second survey 3.5 years after graduation as part of L-DLHE e.g. winter 2008/09
 - Third survey stand-alone ~7 years after graduation planned winter 20012/13
- Results published in 'What do Researchers Do?' series by Vitae



* DLHE/L-DLHE (longitudinal) – Destination of Leavers from Higher Education



Some practical facts and issues

- 2004/05 DLHE 6595 research postgraduate responses
- 2008/09 L-DLHE 2501 responses (45%) of which 2073 doctorates
- 2012/13 resurvey projected attrition problem currently being addressed
- Use of Standard Occupation Coding (SOC)
 - Initial problems of subjective categorisation
 - Four-digit SOC allows grouping into clusters
 - HE research occupations
 - Research (not in HE sector)
 - Teaching and Lecturing in HE
- Other Teaching Occupations
- Other common doctoral occupations
- Projected future problem of identifying researchers using SOC 2010
- Basic survey supplemented by qualitative research and/or case RESEARCH studies

Redefined objectives (7 year point) RCUK Doctoral Cohort Study

- The aims of the Study are:
 - To better understand the career pathways of doctoral graduates
 - To improve knowledge of doctoral graduates' impact in employment
 - To better understand how high level skills contribute to the long-term competitiveness of the UK
- It will help to inform:
 - Resource allocation and investments in doctoral training
 - Policies regarding research training and how it contributes to both excellence and impact
 - Policies regarding career pathways and how these might be influenced
 - The supply of information and guidance to researchers about the careers open to them
- Results expected Autumn 2013



The RCUK Cohort study - Actors

WARWICK INSTITUTE for IER

Options analysis Coding work

DLHE/L-DLHE data collection



Customer



3.5 year data analysis





the institute for employment studies

Further analysis, publication and dissemination





Incorporating the UK GRAD Programme and UKHERD



Outcomes from the study so far



Researchers careers

vitae realising the potential of researchers

What do researchers do?

- First destinations by subject
- Career profiles
- Career profiles of doctoral entrepreneurs
- Doctoral graduate destinations and impact three years on

Career stories portal

- database of careers stories
- Career stories on film with icould

Employers' briefings

- targeting the postgraduate and researcher market
- researchers' skills and competencies





WDRD? PhD First Destinations*



- 5 year trends of UK domiciled PhDs in 5 broad disciplinary areas
- Unemployment averages 3.4% lower than Bachelor (6.1%) or Master (4%)
- 72.7% entered work in the UK
- 49% employed in Education (mainly HE)
 - 23% in HE research position
 (Bioscience 36%, SS 18%, A&H 14%)
 - 14% in HE teaching jobs(Bioscience ~5%, SS 34% A&H 27%,)
- Overall 35% in research and 22% in teaching

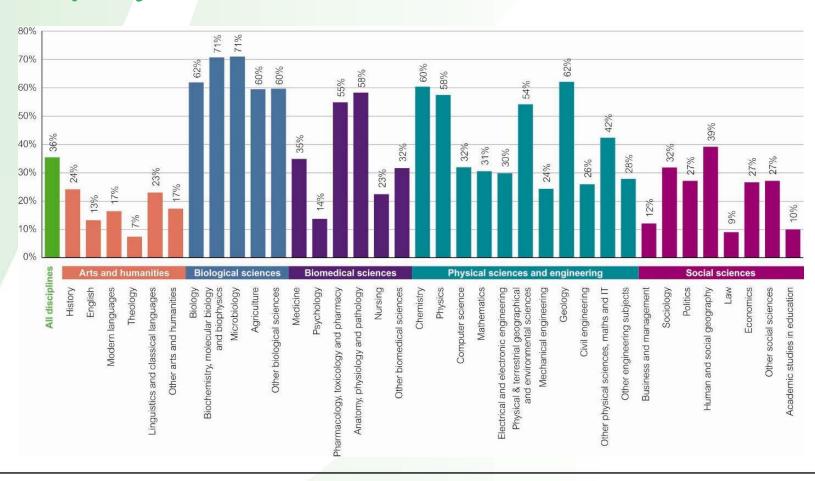


www.vitae.ac.uk

^{*} Analysis of infomation from 5-years of analysis 2003-2007 ~5000 responses p.a.



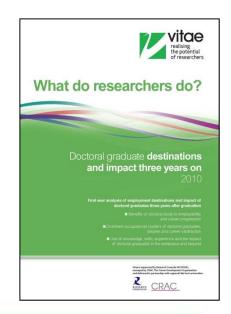
Employed in research roles: 35% overall



WDRD? Destinations and impact three years on

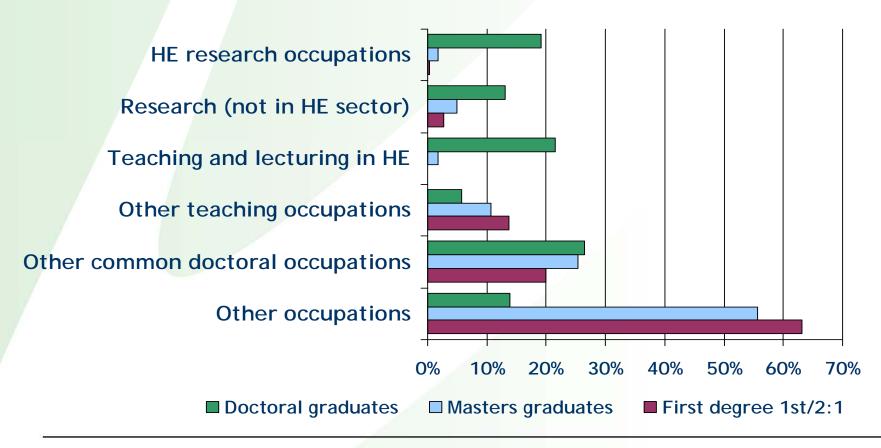


- Employment circumstances (2% unemployed)
- Employment sector and occupation
- Status (contract/mode of work)
- Median annual salary (£34k D; £25k B)
- Value of the doctorate (82% requirement or important)
- Satisfaction with career to date (93%)
- It fitted into my career plans (73.8%)
- It was exactly the type of work I wanted (65.7%)
- Unique doctoral occupations



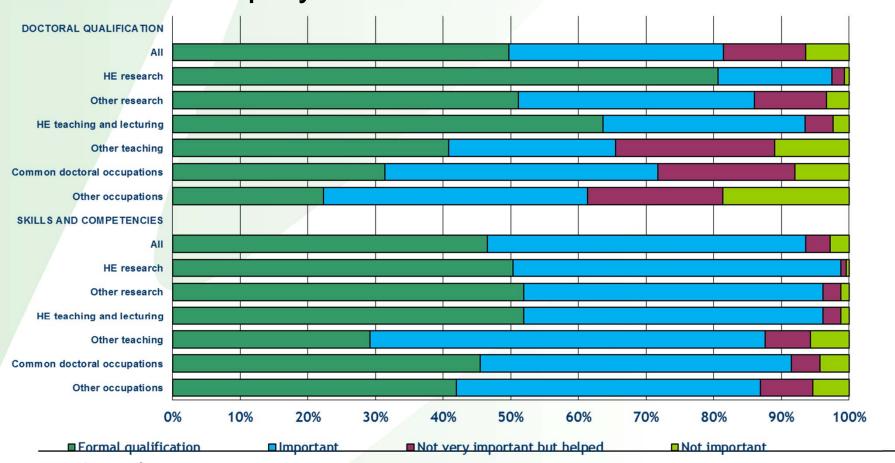


Doctoral graduate occupational clusters





Importance of doctorate, skills and competencies for current employment







WDRD? Destinations and impact three years on

Use of knowledge, skills and experience (research skills

82%; generic skills (91%)

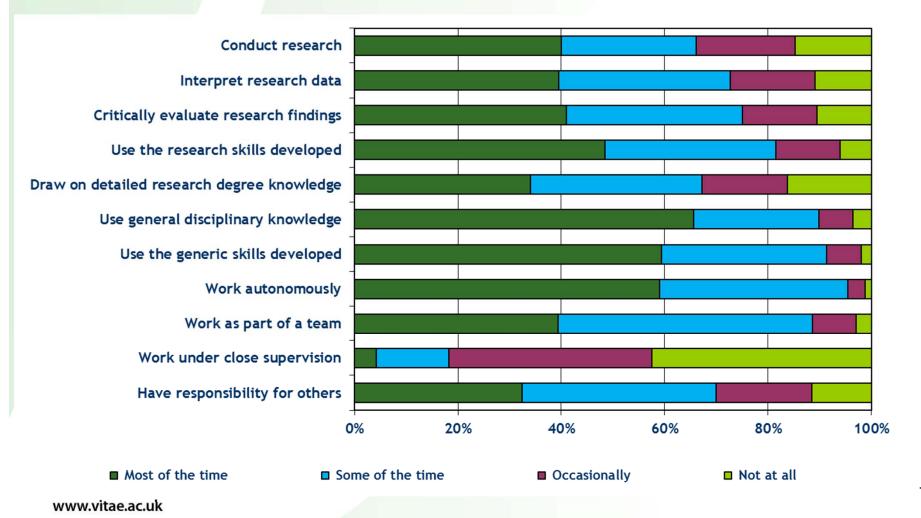
Make a difference in the workplace / innovation (94%)

- Access to, and progress, towards long term career aspirations (87%)
- Enhance social and intellectual capabilities and quality of life (89%)





Use of knowledge, skills and experience



HE *versus* non-HE research – findings from WDRD 3 years on

Work autonomously most of the time:

• HE Research 65.8%, non-HE research 48.8%

Work as part of a team:

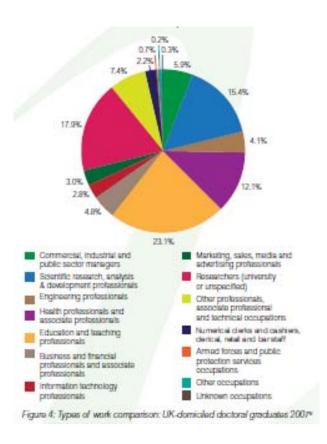
• HE Research 30.1%, non-HE research 44.4%

Be innovative in the workplace:

• HE Research 48.9, non-HE research 50.9%

Make a difference in the workplace:

• HE Research 38.7%, non-HE research 49.3%





Job movement over time: HE and non-HE Researchers

- 435 doctoral graduates were in HE Research at 6 months and 280 were in non-HE research
- At 3.5 years the distribution between job clusters was:

Location at 6 months →	HE	non-HE
- HE Research	50%	18%
Non-HE Research	13%	47%
Teach/lecture in HE	17%	3%
Other Teaching	3%	0%
 Other Common Doctoral 	10%	20%
Other	7%	12%



Some weblinks

- RCUK: www.rcuk.ac.uk/ResearchCareers
- Vitae: www.vitae.ac.uk
- What do researchers do? www.vitae.ac.uk/wdrd
- Labour market information <u>www.vitae.ac.uk/lmi</u>
- Impact and evaluation <u>www.vitae.ac.uk/impact</u>
- Vitae employers <u>www.vitae.ac.uk/employers</u>

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