

Members in the frontline of research and development



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R&D SURVEY 2015

Prospect surveyed members working in R&D in June 2015 to get their perspectives of their work

OUR 2015 SURVEY OF MEMBERS in both the private and public sectors is the first since Prospect asked members in the civil service to share their experiences of working in R&D at the turn of the millennium.

The responses 15 years ago provided a unique insight into the satisfactions and challenges of working in public science. The union now has a much broader reach, covering key parts of the private sector, so is well placed to offer an even more compelling perspective.

It is timely to share these views, given that the shape and scale of investment for science and engineering will not be known before the Spending Review in November.

While the government's general election manifesto committed to £1.1bn annual investment in science capital, unprotected departments are facing budget cuts – potentially up to 40% – and analysis by the House of Commons library shows that over the past five years, some departments reduced their R&D budgets by more than half in real terms.

In Prospect's view, decisions on investment both in science capital and the underpinning resources needed to operate R&D facilities will be key to developing a stronger and fairer economy.

Skills in science, technology, engineering and mathematics (STEM) will provide the building blocks for our future successful high-quality industries. They must also provide the evidence base for policymaking and advice to government, including effective emergency responses.

The scale of this challenge is illustrated by one of our respondents, who stated: "I

don't think people have long-term visions and hopes any more."

PROSPECT'S LATEST SURVEY

Prospect's latest survey in June 2015 attracted 2,079 responses, 27% of them from women. A fifth (20%) of respondents were under 40, 28% were aged 40-49, 40% 50-59 and 12% over 60.

Respondents were highly qualified, including 19% at PhD level; 24% with postgraduate-level qualifications; 29% at first-degree level; 19% at BTEC, A-level

or equivalent; 5% at BTEC first diploma or equivalent; and just 4% with no formal qualification.

Just over a third of responses came from the civil service, with a similar number from the private sector and the remainder from members in a range of other organisations including charities, research institutes, public-

private partnerships, non-governmental organisations, universities and self-employed consultants.

Of respondents from the private sector and other bodies, 70% had previously worked in the public domain and one in five of their organisations had moved into the private sector in the last 10 years.

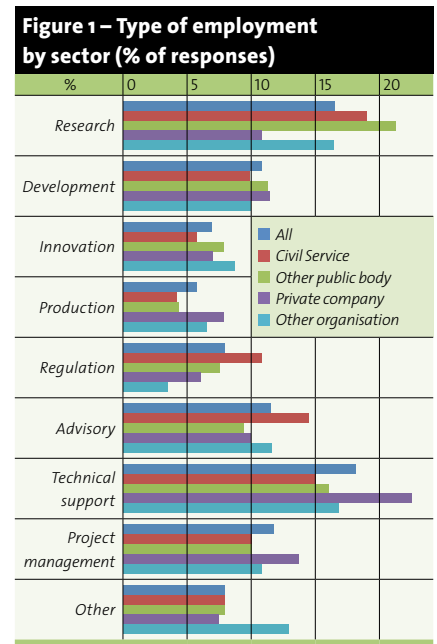
KEY FINDINGS

The experience of our members shows that:

- The proportion of work undertaken on a commercially confidential basis has grown significantly, even in the public sector.

“Yes, there are increases in capital funding, but these are not accompanied by increases in operational funding for exploitation. Rather, operational costs are constantly under pressure to decrease”

“While government is happy to invest capital in large facilities, salaries have been capped or frozen and pensions have been reformed, so staff do not feel valued”



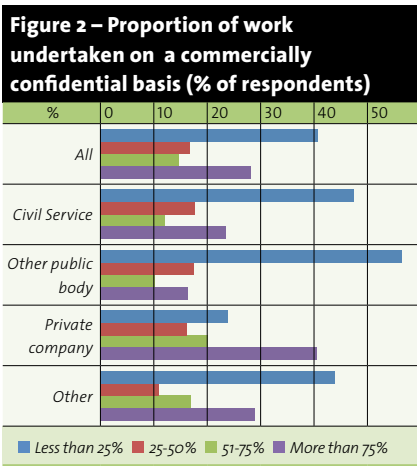
- Although the use of fixed-term contracts is not widespread, repeated use of such contracts over an extended period has not been eliminated.
- Fewer respondents expect their organisations to benefit from increased capital investment in the next three years than have benefited in the past

three years. There is a high level of uncertainty about future investment intentions.

- Cuts in public funding have affected R&D across the economy over the past five years. While concerns are strongest in the public sector, 45% of respondents from private companies report that

their organisation has been affected.

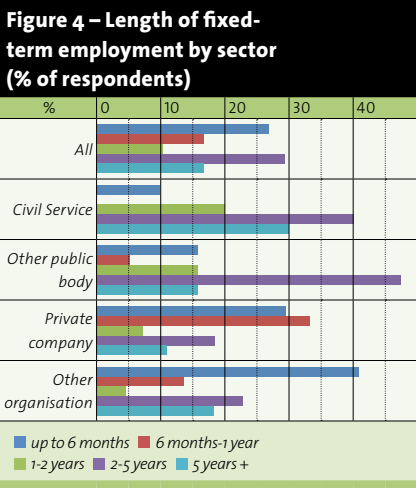
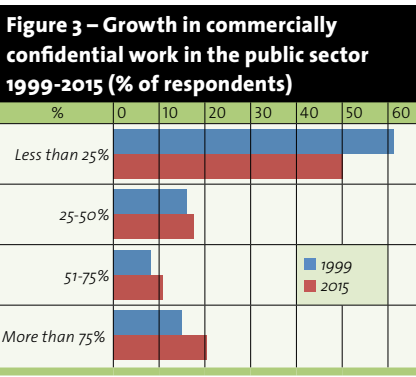
- The civil service has been hardest hit by job losses, but there have been significant staff reductions across all sectors.
- Among a range of specialist skill shortages, engineering skills are a high priority for all. The shortage of IT and software specialists



is particularly acute in the public sector, whereas a shortage of electrical engineers and nuclear specialists is the priority in the private sector.

- Job satisfaction is generally highest in public bodies outside the civil service, where more time is spent on research rather than related activities.
- Opportunities to make contact with others working in the same field and to work with renowned experts are major sources of satisfaction across all sectors.
- There is very little optimism about career prospects in STEM, with 47% of respondents believing that they do not have any further opportunities to progress. Budget cuts and flatter organisational structures are seen as key barriers.
- 32% of respondents would consider moving to a different employer for better career prospects, better financial rewards, to secure more interesting work or to avoid short-term appointments. Of these, 80% were looking for opportunities outside science.
- 19% of respondents from the civil service reported that they had been asked to tailor research conclusions to suit a customer's preferred outcome.
- Over half of respondents considered that the expertise within their own organisation had declined in the last five years – including 60% in the civil service and 49% employed in the private sector and other public bodies.

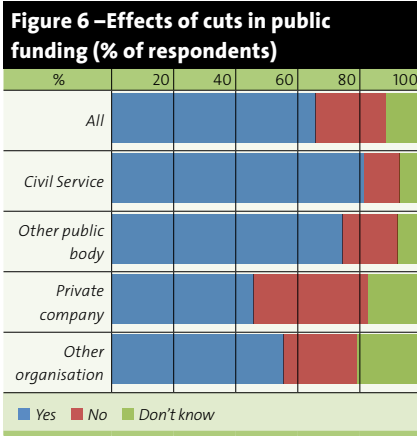
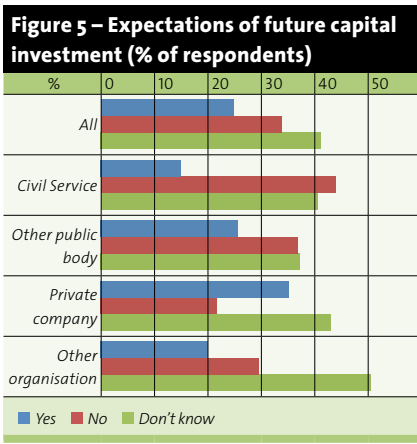
“You asked about cuts to funding. Our problem is the opposite: our customers are ready and able to fund more work than we can do, but our headcount is restricted and because of poor and falling pay we are unable to recruit and retain specialists in most areas”



EMPLOYMENT PATTERNS

Figure 1 (see p1) outlines the types of work currently undertaken across different employment sectors. There are some distinct differences between the private sector, where project management and technical support roles are most common, and the civil service, where there is a stronger focus on research, regulation and advice. However, it is members employed by other public bodies that are most likely to spend their time on research. Respondents from the private sector were more likely than others to be engaged in commercially confidential work, though

35% of respondents from the civil service reported that 50% or more of their work was commercially confidential – see Figure 2. The proportion of work undertaken on a commercially confidential basis has grown significantly, even in the public sector, as shown in Figure 3. Although 96% of all respondents were



employed on permanent contracts, around a quarter of those from other organisations were on fixed-term, agency or casual contracts or self-employed. Of respondents on fixed-term contracts, 17% had been employed on this basis for five years or more.

The civil service and other public sector bodies are less likely to employ staff on very short-term contracts, but more likely to employ them on fixed terms of two years or more, as shown in Figure 4.

Around a third of respondents from private companies and other organisations had experienced repeated fixed-term contracts, compared with 10% in the civil service and 23% from other public bodies.

A quarter of respondents on repeated fixed-term appointments had had between four-six contracts; 3% seven-nine contracts and 5% 10 or more fixed-term contracts with their current employer. Including previous employment, 40% had four-six fixed-term contracts, 8% had seven-nine such contracts and 13% had more than 10.

Seven in ten (70%) respondents were in posts that are core funded. Private sector companies were most likely to fund R&D posts from project expenditure (14%). One in five respondents from other public bodies relied on a combination of sources to fund their employment.

