

## Royal Society Delivery Plan 2011-2015

### *Block 1- Scientific Excellence and Innovation*

The schemes in Block 1 are designed to support the most outstanding scientists in the British science base at various stages of their careers. The following numbers illustrate the recruitment numbers and the population of holders at the end of the comprehensive spending review period for each of the four alternate scenarios.

The **Royal Society Research Professorship** scheme allows 14 internationally acclaimed scientists to concentrate on contributing at the highest level to the UK's scientific competitiveness. In 2010, one of our Research Professors won the Nobel Prize for Physics. Research Professors are released from their administrative and teaching responsibilities and permitted to focus on their research for a period of up to 10 years. During the next four years two Research Professors will be appointed to replace those finishing in 2013.

| Year                          | 2011/2012 | 2012/2013 | 2013/2014 | 2014/2015 |
|-------------------------------|-----------|-----------|-----------|-----------|
| <b>Numbers recruited</b>      | 0         | 0         | 2         | 0         |
| <b>Target population</b>      | 14        | 14        | 14        | 14        |
|                               |           |           |           |           |
| <b>(1.01) Allocation (£k)</b> | 2,060     | 1,997     | 2,126     | 2,217     |

The **Royal Society University Research Fellowship** scheme is the flagship scheme for the supporting postdoctoral researchers across all disciplines, including one of the 2010 Nobel Laureates in physics. The delivery plan protects this scheme in the face of tough economic decisions. The Research Support and Research Grants have been consolidated and will be used to support the URFs. The consolidated URF research support has been integrated with the rest of the budget for the URF scheme permitting us to ensure the greatest possible focus on these future scientific leaders.

| CSR Settlement                | 2011/2012 | 2012/2013 | 2013/2014 | 2014/2015 |
|-------------------------------|-----------|-----------|-----------|-----------|
| <b>Numbers recruited</b>      | 40        | 40        | 40        | 40        |
| <b>Target population</b>      | 306       | 311       | 306*      | 304*      |
|                               |           |           |           |           |
| <b>(1.02) Allocation (£k)</b> | 30,871    | 31,443    | 31,945    | 32,228    |

\*There are large numbers of URFs finishing in these two years because of a decision to appoint large number eight years before. In order to prevent this fluctuation in numbers in future we are proposing to maintain the number of URFs appointed at 40 for these 2 years. In 2015-2016 the number of URFs finishing is low and therefore assuming we again appoint 40 URFs the number will recover to 310.

The **Dorothy Hodgkin Fellowship** supports early career researchers with a requirement for flexibility, or those with a non-standard career path. The scheme particularly welcomes applications from female

researchers. During the next four years the number of Dorothy Hodgkin Fellowships will be reduced to 5 awards per year, and the duration will be extended to five years. The reduction in the number of awards reflects the priorities of the Society in supporting the URF scheme.

| CSR Settlement                | 2011/2012 | 2012/2013 | 2013/2014 | 2014/2015 |
|-------------------------------|-----------|-----------|-----------|-----------|
| Numbers recruited             | 5         | 5         | 5         | 5         |
| Target population             | 51        | 38        | 32        | 28        |
|                               |           |           |           |           |
| <b>(1.03) Allocation (£k)</b> | 3,779     | 3,154     | 2,494     | 2,031     |

**Industry Fellowships** provide a valuable method of translating British science into growth in key sectors of the economy, in particular by kick-starting relationships that typically continue long after the funding has ceased. The delivery plan includes a significant increase (of 30%) in the funding for this scheme compared to the 2007-2010 Spending Review period. This increase in support is a response to a recent evaluation of the scheme and reflects the larger number of high quality applications received. In 2010 the Society received over £800k in private funding in support of this scheme from Research Councils and Industry.

| CSR Settlement                | 2011/2012 | 2012/2013 | 2013/2014 | 2014/2015 |
|-------------------------------|-----------|-----------|-----------|-----------|
| Numbers recruited             | 8         | 8         | 8         | 8         |
| Target population             | 22        | 22        | 22        | 22        |
|                               |           |           |           |           |
| <b>(1.04) Allocation (£k)</b> | 800       | 800       | 800       | 800       |

**Royal Society Wolfson Research Merit Awards** Funded jointly with the Wolfson Foundation, these awards offer UK universities the opportunity to attract and retain outstanding scientists. The awards offer a salary enhancement and additional research expenses for a period of five years.

| CSR Settlement                | 2011/2012 | 2012/2013 | 2013/2014 | 2014/2015 |
|-------------------------------|-----------|-----------|-----------|-----------|
| Numbers recruited*            | 35        | 35        | 35        | 17        |
| Target population*            | 180       | 180       | 180       | 180       |
|                               |           |           |           |           |
| <b>(1.05) Allocation (£k)</b> | 2,000     | 2,000     | 2,000     | 2,000     |

\*The numbers recruited and in post are the total funded from PGA funds and the additional £2 million funded by the Wolfson Foundation. Funding requests vary and numbers recruited will depend on funds available.

**Diversity Programme** To help facilitate the Royal Society's diversity strategy, this includes funds to run the Royal Society Rosalind Franklin Award, and other activities to promote the participation of women and other underrepresented groups in SET.

| CSR Settlement                | 2011/2012 | 2012/2013 | 2013/2014 | 2014/2015 |
|-------------------------------|-----------|-----------|-----------|-----------|
|                               |           |           |           |           |
| <b>(1.06) Allocation (£k)</b> | 60        | 60        | 60        | 60        |

## Block 2 – Science Communication and Education

The Royal Society takes very seriously the need for a well-educated scientific workforce and a population that appreciates scientific discovery and its importance, and which is comfortable with its application. Block 2 provides mechanisms by which we can use our unique expertise in this area to have a significant impact.

**Education policy studies** provide the basis for good decisions in science education. They are conducted in tandem with the Society’s Education Research Fellowship scheme, funded through private philanthropy to support excellent researchers to solve policy-related questions. This is a new approach to this activity and will be overseen by the Society’s Education Committee, which is chaired by Dame Athene Donald.

| CSR Settlement                | 2011/2012 | 2012/2013 | 2013/2014 | 2014/2015 |
|-------------------------------|-----------|-----------|-----------|-----------|
|                               |           |           |           |           |
| <b>(2.01) Allocation (£k)</b> | 418       | 418       | 418       | 418       |

Our **Science Communication** activities have a unique niche in allowing direct access to the cutting-edge researchers, not mediated through curators or other intermediaries. The Summer Science Exhibition leverages funds from a wide range of private and public partners to showcase the best British research to a large and diverse audience, and our public programme of lectures and debates provide access to scientists behind some of the most exciting discoveries worldwide, both in person and via the webcasts, which remain available indefinitely.

| CSR Settlement                       | 2011/2012          | 2012/2013          | 2013/2014          | 2014/2015          |
|--------------------------------------|--------------------|--------------------|--------------------|--------------------|
| <b>Summer Science Exhibition</b>     | 1 (5500 attendees) | 1 (5500 attendees) | 1 (5500 attendees) | 1 (5500 attendees) |
| <b>Training for Scientists</b>       | 12 (100 attendees) | 12 (100 attendees) | 12 (100 attendees) | 12 (100 attendees) |
| <b>Public programmes and debates</b> | 15                 | 15                 | 15                 | 15                 |
|                                      |                    |                    |                    |                    |
| <b>(2.02) Allocation (£k)</b>        | 515                | 515                | 515                | 515                |

**Partnership Grants** link some of the best researchers with teachers and students to allow the students to take what they have learned in class and apply it to designing, conducting and interpreting their own experiments and scientific studies.

| CSR Settlement                | 2011/2012 | 2012/2013 | 2013/2014 | 2014/2015 |
|-------------------------------|-----------|-----------|-----------|-----------|
| <b>Numbers of awards</b>      | 45        | 45        | 45        | 45        |
|                               |           |           |           |           |
| <b>(2.03) Allocation (£k)</b> | 100       | 100       | 100       | 100       |

**Educational events and resources** provide networks for teachers to make the most effective use of excellent British science in engaging and exciting young people about science.

| CSR Settlement                | 2011/2012 | 2012/2013 | 2013/2014 | 2014/2015 |
|-------------------------------|-----------|-----------|-----------|-----------|
| <b>(2.04) Allocation (£k)</b> | 85        | 82        | 77        | 77        |

*Block 3 - International Competitiveness*

The **global strategic challenges** programme is explicitly designed to build new, innovative, multidisciplinary partnerships between the UK's very best researchers and their counterparts in the US, Japan, Europe, BRIC and other emerging economies; and to engage their respective policymaking communities at the same time. It will build multidisciplinary scientific partnerships around global challenges, such as climate change, water, energy, food security, public health and biodiversity.

| CSR Settlement                | 2011/2012 | 2012/2013 | 2013/2014 | 2014/2015 |
|-------------------------------|-----------|-----------|-----------|-----------|
| <b>(3.01) Allocation (£k)</b> | 140       | 133       | 133       | 133       |

The **international leadership** programme will enable the Society to participate in wide-ranging interacademy networks (e.g. at European, G8, G20 and global levels), whose ability to convene the world's best scientists around any shared research agenda, however sensitive, is genuinely unique. Critically, this includes the BRIC (Brazil, Russia, India, China) countries and the next tier (Goldman Sachs's "next eleven") of emerging economies.

| CSR Settlement                | 2011/2012 | 2012/2013 | 2013/2014 | 2014/2015 |
|-------------------------------|-----------|-----------|-----------|-----------|
| <b>(3.02) Allocation (£k)</b> | 188       | 188       | 188       | 188       |

The **International Collaboration** programme is a consolidation of the previous International Travel Grants and the International Joint Projects funding schemes. This new scheme will assist young and established scientists and engineers to develop international links and access to the very best researchers, institutions and facilities. This scheme supports the Newton International Fellowships, through establishing the collaborations which lead onto applications for Newton Fellowships. The scheme will enable international collaboration by providing a flexible mobility grant for researchers to cover travel, subsistence and research expenses. The strategic aim would be to exclusively foster new or strengthen existing research partnerships and collaborations and would no longer support conference attendance. Applicants can apply for support of up to £6000 per year for between 1 to 3 years.

| CSR Settlement                     | 2011/2012 | 2012/2013 | 2013/2014 | 2014/2015 |
|------------------------------------|-----------|-----------|-----------|-----------|
| <b>Travel Grants</b>               | 500       |           |           |           |
| <b>Joint Projects</b>              | 60        |           |           |           |
| <b>International collaboration</b> |           | Variable* | Variable* | Variable* |
| <b>(3.03) Allocation (£k)</b>      | 2,120     | 1,160     | 1,080     | 1,080     |

\* numbers of awards will vary as the new merged scheme will allow applicants to apply for both small grants for short collaborative visits or larger grants to maintain ongoing collaborations.

The **Newton International Fellowship** The Newton Fellowships attract some of the world’s most talented early career researchers to the UK, and with its long-term alumni scheme, provides a cadre of future international research leaders with strong sustained links to the UK; helping the UK to maintain its leadership in the global knowledge economy. The success of this scheme has made it one of the Society’s main priorities for the current CSR and the scheme is maintained in all scenarios. It will be particularly important for the UK to draw world-class researchers from key countries with developing scientific ambitions, such as the BRICs and other developing nations. The Society will shortly launch the alumni programme to ensure continued engagement between these excellent early career researchers and UK science.

| CSR Settlement                | 2011/2012 | 2012/2013 | 2013/2014 | 2014/2015 |
|-------------------------------|-----------|-----------|-----------|-----------|
| <b>Numbers recruited*</b>     | 25        | 25        | 25        | 25        |
| <b>Target population</b>      | 50        | 50        | 50        | 50        |
| <b>Number of alumni*</b>      | 25        | 50        | 75        | 100       |
|                               |           |           |           |           |
| <b>(3.04) Allocation (£k)</b> | 2,303     | 2,768     | 2,931     | 3,069     |

\*Illustrates the number of awards and alumni funded through the Royal Society, this does not include any allocation for the Royal Academy of Engineering or the British Academy’s Newton Fellows.

The cost of the Newton Fellowships in 2011 will reduce due to the timing of the 2009 round of the scheme. This round was run to a different timetable than both the 2008 and 2010 rounds and therefore the phasing of the payments means that the cost of the scheme will reduce in 2011. The scheme is now set on a standard timetable and therefore after 2011 the cost of the scheme will remain constant with the exception of the increasing costs of the alumni programme.

**International Subscriptions** These international subscriptions enable UK scientists to play an active part in the business of the International scientific bodies. They position the Society uniquely in contributing a UK science voice to global research and policy debates. The Society has over the last few years reviewed its membership of the 36 bodies of the ICSU (International Council for Science) family with which it has a relationship. This has resulted in withdrawal from two bodies and a change of adherence within the UK to 17 bodies so that the relevant learned society is now the adhering body. The advantage of this is that it brings the UK scientific community closer to the relevant international body. Subscriptions usually fall due at the end of the financial year, and are subject to exchange rate fluctuations. This line will also provide support for the International Seismological Centre (ISC). This is the international body tasked with cataloguing, archiving and distributing data from several thousand seismic stations around the world. The ISC data archives go back more than 40 years and are used by thousands of seismologists worldwide for hazard estimation, tectonic studies, discriminating earthquakes from explosions and regional and global imaging of earth structure. Its headquarters are based in the UK for historical reasons with 110 agencies contributing to its work.

| CSR Settlement                | 2011/2012 | 2012/2013 | 2013/2014 | 2014/2015 |
|-------------------------------|-----------|-----------|-----------|-----------|
|                               |           |           |           |           |
| <b>(3.06) Allocation (£k)</b> | 558       | 500       | 500       | 500       |

**International meetings in the UK** (Discussion Meetings) will remain at the heart of our strategy of ensuring that the most exciting scientific developments worldwide are brought to the UK, with the subjects chosen by competitive peer review.

| <b>CSR Settlement</b>         | <b>2011/2012</b> | <b>2012/2013</b> | <b>2013/2014</b> | <b>2014/2015</b> |
|-------------------------------|------------------|------------------|------------------|------------------|
| <b>Numbers of meetings</b>    | 11               | 10               | 10               | 10               |
|                               |                  |                  |                  |                  |
| <b>(3.07) Allocation (£k)</b> | 335              | 335              | 335              | 335              |

*Block 4 – Operating costs and rent*

As a distributor of public money, the Society continually seeks to use its resources in the most effective way. The Parliamentary grant has benefited from a steady reduction in charges made for operating costs. In 1992 the proportion of the grant devoted to administration was 18%, by 1998 this was 9% and in 2007-08 this had reduced further to 5.5%. In 2010/11, the proportion of grant devoted to administration has fallen to less than 2.8%.

| <b>CSR Settlement</b>        | <b>2011/2012</b> | <b>2012/2013</b> | <b>2013/2014</b> | <b>2014/2015</b> |
|------------------------------|------------------|------------------|------------------|------------------|
|                              |                  |                  |                  |                  |
| <b>(4.1) Allocation (£k)</b> | 1,498            | 1,448            | 1,399            | 1,350            |