



Nordic Institute for Studies in  
 Innovation, Research and Education

## Strong increase in industrial R&D in 2014

*Final figures for 2014 show that total R&D expenditure in Norway amounted to nearly 54 billion NOK. This amounts to a real growth rate of 3 per cent. The industrial sector accounts for most of the growth, with an increase from 2013 of more than 2.2 billion NOK. R&D expenditure in the higher education sector increased by 700 million NOK, while the institute sector used about 150 million NOK more in 2014 than in 2013. More than 40 000 R&D full-time equivalents (FTE) were carried out in Norway in 2014, almost 1 800 more than in 2013.*

The increase in industrial R&D in 2014 is the highest in over 10 years and, adjusted for increases in wages and prices, this gives a real growth of 6.7 per cent. The higher education sector's increase corresponds to a real growth of 1.4 per cent, while the institute sector had a real decrease of about 2 per cent. The reduction in the institute sector is in part due to reorganization and subsequent reclassification of two large research institutes into higher education sector units in 2014. Adjusted for this reclassification there was zero growth in current R&D expenditure in the institute sector.

After several years of substantial growth, R&D expenses in the health trusts were lower in 2014 than in 2013. This reduction was largely caused by changes in the health trusts' pension system leading to lower pension costs in 2014. This also affects the figures for the higher education sector, as university hospitals are classified as part of this sector.

R&D in the industrial sector is described in more detail on the web pages of Statistics Norway, at <http://www.ssb.no/en/teknologi-og-innovasjon/statistikker/foun/aar-enderlige/2016-02-04>.

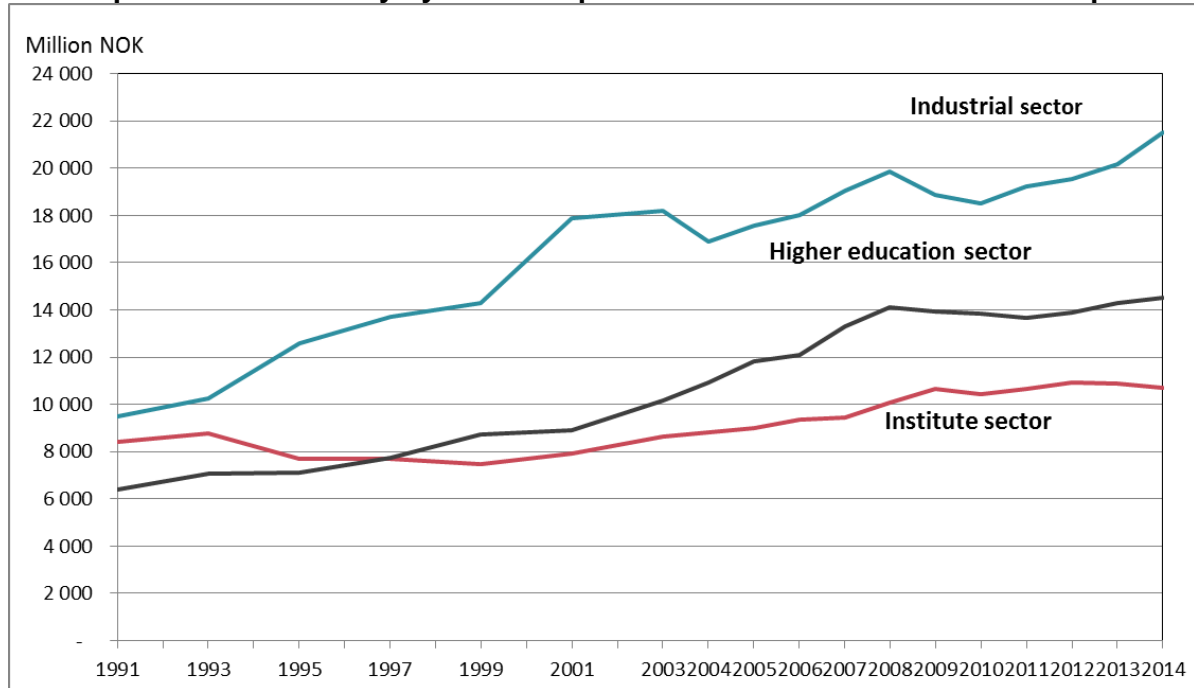
### **R&D expenditure in 2012, 2013 and 2014 by sector of performance. Mill. NOK.**

Sector	2012	2013	2014	Change 2013-2014 fixed 2010-prices
Industrial sector	21 176	22 557	24 802	6,7
Higher education sector	15 039	16 001	16 720	1,4
Institute sector	11 828	12 190	12 345	-1,7
<b>Total</b>	<b>48 043</b>	<b>50 748</b>	<b>53 867</b>	<b>3,0</b>
<i>of which health trusts*</i>	<i>3 137</i>	<i>3 470</i>	<i>3 433</i>	<i>-4,0</i>
Share of GDP (%)	1,65	1,65	1,71	

\* Decrease due to changes in the pension system.

Source: NIFU and Statistics Norway

### R&D expenditure in Norway by sector of performance: 1991-2014. Fixed 2010-prices.

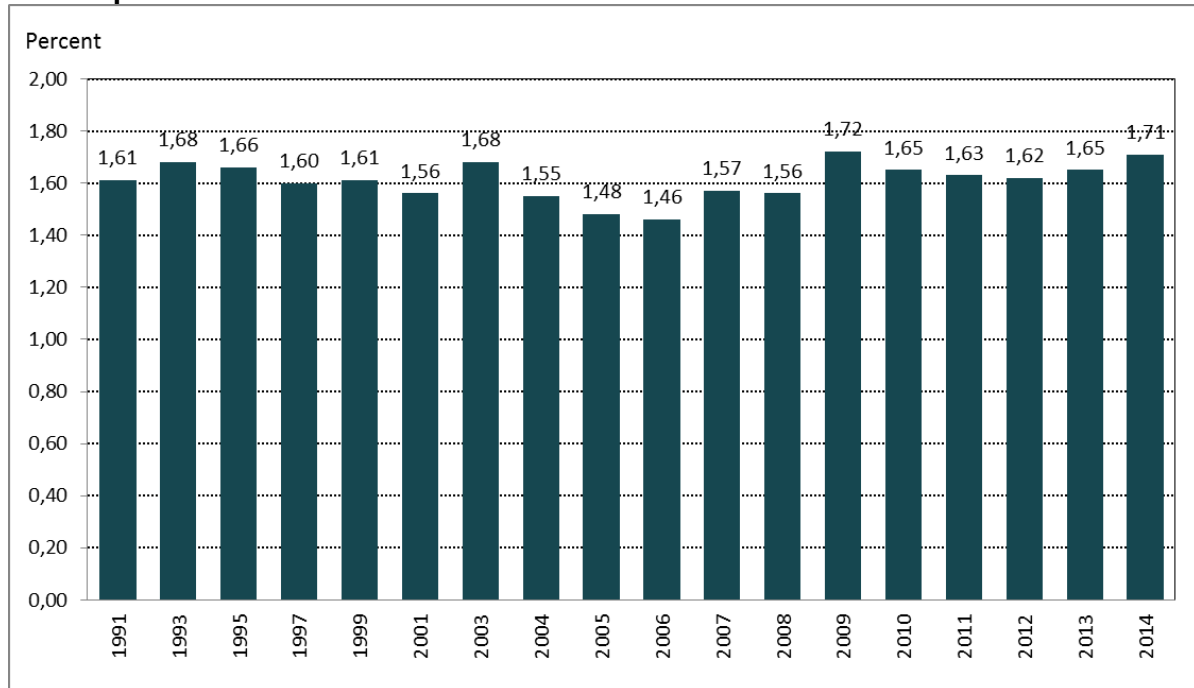


Source: NIFU and Statistics Norway

### Increase in R&D expenditure share of GDP

R&D expenditure amounted to 1.71 per cent of the gross domestic product (GDP) in 2014. This is an increase compared to 2013 and 2012, when the share was 1.65 per cent. The GDP figure for 2014 is provisional.

### R&D expenditure as share of GDP 1991-2014.



Source: NIFU and Statistics Norway

## More R&D FTEs

Almost 40 300 full-time equivalents (FTE) were carried out in 2014. The industrial sector accounts for 45 per cent of the FTEs, the higher education sector for 32 per cent and the institute sector for 23 per cent. From 2013 the number of FTEs increased by nearly 1 800, of which almost 1 600 came in the industrial sector. The institute sector had almost 100 fewer FTEs than in 2013, largely due to the aforementioned structural changes. The industrial sector's share of Norway's total R&D FTEs increased by 2 per cent compared to 2013, while the other two sectors' share decreased by 1 per cent each.

The health trusts accounted for 7 per cent of the total R&D FTEs in 2014. From 2013 to 2014, they had a growth of 1 per cent. This was considerably less than from 2012 to 2013 when the growth in FTEs was 8 per cent.

### R&D full-time equivalents (FTEs) in 2012, 2013 and 2014 by sector of performance.

Sector	2012	2013	2014	Share per sector (%)
Industrial sector	16 062	16 371	17 932	45
Higher education sector	12 413	12 714	13 010	32
Institute sector	9 232	9 449	9 355	23
<b>Total</b>	<b>37 707</b>	<b>38 534</b>	<b>40 297</b>	<b>100</b>
<i>of which health trusts</i>	<i>2 749</i>	<i>2 977</i>	<i>3 018</i>	<i>7</i>

Source: NIFU and Statistics Norway

The national R&D statistics for Norway are prepared and published annually on commission by The Research Council of Norway. NIFU is responsible for the higher education sector and the institute sector (the Norwegian institute sector includes government sector and non-profit research institutes serving enterprises) statistics, while Statistics Norway is responsible for the industrial sector. NIFU is also responsible for compiling the sector data into total R&D statistics for Norway and to report statistics to international organisations. The statistics are prepared on the basis of the OECD guidelines, as published in the Frascati Manual. The R&D statistics are reported to the OECD data bases for Science & Technology as well as to Eurostat.

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The national R&D statistics for Norway are published by NIFU <http://www.nifu.no/en/statistics/> and the Research Council of Norway [http://www.forskningsradet.no/en/Home\\_page/1177315753906](http://www.forskningsradet.no/en/Home_page/1177315753906). In the R&D statistics Bank the users may choose data and define statistical tables by their own choice: <http://www.nifu.no/en/statistics/databaser-og-registre/rd-statistics-bank/>. More information on the industrial sector is available on [http://www.ssb.no/fou\\_en/](http://www.ssb.no/fou_en/)