R&D Tax Incentives: Belgium, 2021

Design of R&D tax relief provisions

Belgium provides R&D tax relief through a payroll withholding tax (PWHT) exemption, an R&D tax credit and R&D tax allowance. Tax credit and allowance are incompatible.

Table 1. Main design features of R&D tax incentives in Belgium, 2021

<table>
<thead>
<tr>
<th>Tax incentive*</th>
<th>Tax credit**</th>
<th>Tax allowance</th>
<th>PWHT exemption</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of instrument</td>
<td>Volume-based</td>
<td>Volume-based</td>
<td>Volume-based</td>
</tr>
<tr>
<td>Eligible expenditures*</td>
<td>Machinery and equipment, buildings</td>
<td>Labour</td>
<td></td>
</tr>
<tr>
<td>Headline rates (%)</td>
<td>3.38 (5.125***</td>
<td>13.5***** (20.5****)</td>
<td>80 (40 if bachelor degree with effect of January 2018)</td>
</tr>
<tr>
<td>Refund</td>
<td>5 years</td>
<td>No</td>
<td>Redeemable against payroll/related taxes</td>
</tr>
<tr>
<td>Carry-over (years)</td>
<td>4 (carry-forward)</td>
<td>Indefinite (carry-forward)</td>
<td>n.a.</td>
</tr>
<tr>
<td>Ceilings</td>
<td>R&amp;D tax relief</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

M&E: Machinery and Equipment; PWHT: Payroll withholding tax; SSC: Social Security contributions; TA: Tax allowance; TC: Tax credit; *Belgium also offers an accelerated depreciation of assets (machinery and equipment, intangibles) used in the process of R&D over a period of 3 years; **: Granted for investments in patents and environmentally friendly R&D investments; *** Spread deduction over five years (i.e. 1.025 per year); **** Spread deduction over five years (i.e. 4.1 per year). For SMEs, the normal investment deduction is temporarily raised from 8% to 25% for investment made between 12 March 2020 and 31 December 2022. The normal investment deduction rate of 25% applies when it is more interesting for taxpayers. Belgium also provides an income-based tax incentive (deduction for innovation and patent income) for outcomes of R&D activities. This type of incentive is beyond the scope of this note.

Note: For more details, see OECD R&D Tax Incentive Compendium and Eligibility of current and capital expenditure for R&D tax relief


Key features:

- In case of insufficient income tax liability, the R&D tax allowance scheme allows for an indefinite carry-forward of unused claims. In the case of the R&D tax credit, unused claims are carried forward over 4 years and the unused part is refunded after 5 years.

Generosity of R&D tax support in 2021

Differences in the design of R&D tax incentives drive significant variation in the expected generosity of tax relief per additional unit of R&D investment. In 2021, the marginal tax subsidy rate for profit-making (loss-making) SMEs in Belgium is estimated at 0.16 (0.15), smaller than the OECD median of 0.20 (0.18). The tax subsidy rate for large enterprises is equal to 0.15 (0.14) in the profit (loss)-making scenario, below the OECD median of 0.17 (0.15). These estimates focus on modelling the provisions for the refundable R&D tax credit (incompatible with but equivalent in terms of the magnitude of the headline tax credit rate to the non-refundable R&D tax allowance), PWHT exemption and accelerated depreciation of R&D capital. For SMEs, the normal investment deduction is temporarily more favourable and modelled instead of the R&D tax credit.

Figure 1. Implied tax subsidy rates on R&D expenditures: Belgium, 2021

1-B-Index, by firm size and profit scenario

Note: Implied marginal tax subsidy rates, presented for different firm size and profitability scenarios, are calculated based on headline tax credit/allowance rates (see methodology and country-specific notes), providing an upper bound value of the generosity of R&D tax support, not reflecting the effect of thresholds and ceilings that may limit the amount of qualifying R&D expenditure or value of tax relief.

Recent developments in R&D tax relief provisions

Regular reforms of R&D tax incentives lead to continuous changes in the availability, scope and generosity of R&D tax incentives. Such reforms relate to the launch of new tax incentives, the R&D definition adopted for tax purposes, changes in tax credit and allowance rates, adjustments of thresholds or upper ceilings on qualifying R&D expenditure or tax relief amounts, or changes in the terms and availability of refunds.

In 2021, Belgium did not undertake changes in its R&D tax relief provisions. The latest change in the design of the R&D tax credit (PWHT credit) in Belgium occurred in 2018, when the scope of the payroll tax exemption was extended to additionally apply to researchers with a bachelor degree at a rate of 40%, i.e. half the rate applicable to researchers with a masters or doctoral degree. An important change in the administration of the R&D tax incentives in Belgium occurred in 2019 when for the first time in Belgium’s income tax history, a tax consolidation was introduced through the so-called “deduction of the group contribution”. In practice, Belgian companies are from 2019 onwards able to transfer taxable profits to other Belgian affiliated companies with the aim of offsetting these profits against current year tax losses.

Trends in the generosity of R&D tax support

Across the four scenarios considered, the generosity of R&D tax incentives has increased steadily in Belgium over the 2000-20 period. The implied R&D tax subsidy rate for profitable SMEs and large firms rose from 0.10 in 2005, when the PWHT credit was introduced, to 0.15 in 2020. In the case of loss-making firms, the tax subsidy rate per unit of R&D outlay similarly increased from 0.09 in 2005 to 0.15 in 2020.

The stepwise increases in implied R&D tax subsidy rates, observable in the years 2008, 2009 and 2013, are linked to increases in the rate of the PWHT credit from initially 50% to 65%, 75% and 80% respectively.

From 2018 to 2021, the R&D tax subsidy rates estimated for SMEs slightly exceed those for large firms. Over these four years, the normal investment deduction is modelled for SMEs instead of the R&D tax credit. For SMEs, the normal investment deduction rate was temporarily raised from 8% to 20% for investments made between 1 January 2018 and 31 December 2019, and from 8% to 25% for investments made between 12 March 2020 to 31 December 2022), and thus more favourable to taxpayers during these years.

**Figure 2. Implied tax subsidy rates on R&D expenditures: Belgium, 2000-2021**

Note: Implied marginal tax subsidy rates, presented for different firm size and profitability scenarios, are calculated based on headline tax credit/allowance rates (see methodology and country-specific notes), providing an upper bound value of the generosity of R&D tax support, not reflecting the effect of thresholds and ceilings that may limit the amount of qualifying R&D expenditure or value of tax relief.

Policy support for business R&D: the policy mix

Belgium is placed among OECD countries that provide the largest level of total government support to business R&D as a percentage of GDP, at a rate equivalent to 0.29% of GDP in 2019.

Figure 3. Direct government funding of business R&D and tax incentives for R&D, 2019 (nearest year)

As a percentage of GDP

Note: Data on subnational tax support are only available for a group of countries.

Key points:
- From 2006 to 2019, total government support for BERD as a percentage of GDP increased in Belgium by 0.21 percentage point (pp), while the OECD median (2006-2019) increased by 0.05 pp.
- During this period, business R&D intensity in Belgium increased from 1.26% to 2.34%.
- In 2019, R&D tax relief accounted for 71% of total government support for BERD in Belgium.

Distribution of R&D tax relief recipients and government tax relief for R&D

The distribution of R&D tax relief recipients and government tax relief for R&D expenditures (GTARD) provide insights into what types of firms claim and benefit from tax relief.

Figure 4. Number of R&D tax relief recipients and value of government tax relief for R&D, 2019

By firm size*, share in percent

By industry**, share in percent

Note: Figures refer to the Payroll Withholding Tax Credit and the Refundable tax credit for R&D. *SMEs are defined as enterprises that, in the last two years, do not exceed an average annual number of employees below 50 or a revenue under EUR 9 million or a balance sheet under EUR 4.5 million. **Industry classification based on NACE Rev. 2.

Key points:
- In Belgium, SMEs accounted for 46% of R&D tax relief recipients in 2019, while the share of R&D tax support accounted for by SMEs amounted to around 7% in this year. 80% of R&D tax benefits were allocated to large firms, comprising 35% of the population of R&D tax relief recipients in 2019.
- In 2019, firms in services represented around 65% of R&D tax relief recipients in Belgium, followed by firms in manufacturing with a share of 29%. The share of R&D tax benefits accounted for by the latter amounted to 56% in that year, while the share of firms in services amounted to 42%.
Trends in the uptake of R&D tax incentives

Over the period 2015-2019 (for which relevant data are available), the number of R&D tax relief recipients increased slightly in Belgium, from around 2,960 in 2015 to 3,820 in 2019. Throughout these years, SMEs accounted for around 45% of corporate R&D tax relief recipients in Belgium.

Figure 5. Number of R&D tax relief recipients, Belgium, 2015-2019

Note: Figures refer to the Payroll Withholding Tax Credit and the Refundable tax credit for R&D.

Trends in government support for business R&D

Since the introduction of R&D tax support in 2005, the importance of R&D tax incentives has increased significantly in Belgium, both in absolute and relative terms.

Figure 6. Direct funding of business R&D and tax incentives for R&D, Belgium, 2000-19

As a percentage of GDP, 2015 prices (right-hand scale)


- As percentage of GDP, R&D tax support increased from 0.03% to 0.21% of GDP over the 2007-2019 period.
- Direct funding of BERD increased from 0.07% in 2007 to 0.09% in 2019.
- The share of R&D tax incentives in total government support increased over this period, from 29% in 2007 to 71% in 2019.


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