Aalto University in 2019
We direct our research towards seven key areas: ICT and digitalisation, materials, art and design, business, energy solutions, living environments, and health and wellbeing.

The number of refereed articles in scientific journals has increased by 61% since 2010.
Research funding and articles

Competitive research funding (€ million)
The number includes e.g. research funding from the Academy of Finland, Business Finland and companies, as well as competitive EU funding.

International peer-reviewed articles in scientific journals
Quality of publications and international faculty

Quality of publications
Share of Aalto University publications that belong to the top 10% most highly cited publications in the world in the same subject area. This indicator has been used since 2015.

International faculty (%)
## Excellence in research

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<tbody>
<tr>
<td>Recipients of European Research Council (ERC) funding</td>
<td>6</td>
<td>6</td>
<td>10</td>
<td>13</td>
<td>16</td>
<td>17</td>
<td>21</td>
<td>26</td>
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<td>Academy of Finland Centres of Excellence</td>
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<td>9</td>
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<td>Academy of Finland Academy Professors</td>
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<td>Academy of Finland Research Fellows</td>
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<td>38</td>
<td>37</td>
<td>34</td>
<td>36</td>
<td>34</td>
<td>38</td>
<td>40</td>
<td>41</td>
<td>44</td>
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</table>
## Professors

The tenure track career system is the university's most important strategic investment.

71% of all professors in 2019 are recruited after 2010.

### Table: Professors by Year and Category

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</thead>
<tbody>
<tr>
<td><strong>All professors</strong></td>
<td>230</td>
<td>239</td>
<td>293</td>
<td>329</td>
<td>369</td>
<td>388</td>
<td>386</td>
<td>386</td>
<td>389</td>
<td>390</td>
</tr>
<tr>
<td><strong>International</strong></td>
<td>4%</td>
<td>6%</td>
<td>12%</td>
<td>15%</td>
<td>17%</td>
<td>18%</td>
<td>20%</td>
<td>22%</td>
<td>24%</td>
<td>24%</td>
</tr>
<tr>
<td><strong>Women</strong></td>
<td>10%</td>
<td>11%</td>
<td>13%</td>
<td>16%</td>
<td>17%</td>
<td>20%</td>
<td>19%</td>
<td>20%</td>
<td>20%</td>
<td>21%</td>
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### Table: New Professors

<table>
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<tr>
<th>Category</th>
<th>0</th>
<th>18</th>
<th>83</th>
<th>131</th>
<th>185</th>
<th>216</th>
<th>228</th>
<th>243</th>
<th>268</th>
<th>278</th>
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<tbody>
<tr>
<td><strong>International</strong></td>
<td>--</td>
<td>28%</td>
<td>29%</td>
<td>31%</td>
<td>29%</td>
<td>28%</td>
<td>30%</td>
<td>31%</td>
<td>33%</td>
<td>32%</td>
</tr>
<tr>
<td><strong>Women</strong></td>
<td>--</td>
<td>17%</td>
<td>19%</td>
<td>23%</td>
<td>24%</td>
<td>27%</td>
<td>25%</td>
<td>26%</td>
<td>26%</td>
<td>26%</td>
</tr>
</tbody>
</table>

* New professors refer to professors appointed to the Aalto University tenure track career system, implemented in 2010.
The strategic development of teaching and learning continued, as well as the long-term work to streamline study paths. The numbers of master’s and doctoral degrees exceeded the targets set by the Ministry of Education and Culture.
Bachelor’s and master’s degrees

Bachelor’s degrees

Master’s degrees

Degree reforms and their transition periods have affected the number of master’s degrees in 2010, 2011 and 2018.
Doctoral degrees and students with 55 credits

Doctoral degrees

Students with a minimum of 55 ECTS credits per year (%)
Basic degree students 2019

11,205 (FTE)*

5,869 bachelor’s students, of which 232 are international

5,337 master’s students, of which 1,360 are international

* Full-time equivalent degree students.
International prominence in the fields of art, design and architecture continued, with the university participating in several major events.

Art and creative practices offer fresh insights for all lines of research and studies.
Artistic excellence

**Art and design 7th in the world**
The QS Rankings put Aalto’s art & design to 7th place and architecture to 41st place worldwide.

**29 university-wide art courses**
Over 400 participants from all Aalto schools attended the UWAS courses.

**Artworks in important events**
Paris Photo, Pitti Uomo, Ars Electronica, Venice Biennale, Triennale di Milano, Dutch Design Week, Helsinki Design Week, Cannes Film Festival, Buenos Aires Biennale of Architecture, Bozar.

**Significant awards**
Red Dot, Jussi and Venla awards, Young Designer of the Year, International Sound Award, Designer's Nest, Hyères, Suomi-palkinto award.

**University's art collection grew**
The Human Approach art concept at the School of Business contains works by nine artists, such as Pilvi Takala's video series of Slush.

**Helsinki Design Week on campus**
Our campus was one of the main venues for the festival in September showcasing over 40 trans-disciplinary projects from Aalto University.

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![Significant artistic outputs 2019](image)

*Includes artistic outputs in world's most important artistic forums.*
In field-specific rankings Aalto ranks among the best in the world.

In 2019, QS placed Aalto 9th in the world among universities founded less than 50 years ago.
Rankings in key research areas

ICT and digitalisation
Shanghai Ranking: Telecommunication Engineering 22 (2018: 28)

Global business dynamics
Shanghai Ranking: Business Administration 29 (2018: 34)
Management 32 (2018: 36)

Advanced energy solutions
Shanghai Ranking: Electrical & Electronic Engineering 76-100 (2018: 51–75)

Human-centred living environments

Arts and design knowledge building

Health and wellbeing

Materials and sustainable use of natural resources
Shanghai Ranking: Mining and Mineral Engineering 76–100 (2018: 51–75)
The long-term campus development programme progressed as planned.

In February 2019, the School of Business moved to a new building in Otaniemi.
Developing campus

2018
School of Arts, Design and Architecture (Väre), shopping centre A Bloc and startup community A Grid opened.

2019
School of Business building opened. Renovation of Aalto University Töölö began.

2020
Campus outdoor area improvement begins. Aalto University Töölö renovation completed. Otaniemi old shopping centre renovation.

2021 – 2023
Construction of Aalto Works, Student Centre, Otakaari 2A & B, Otakaari 5L and residential buildings.

2024 – 2035
Development of university buildings, new student housing, residential and office buildings.
Campus spaces and costs

Facility usage (1,000 sqm)

Facility costs (£ million)

Aalto University
Sustainable development and responsibility are central factors in our strategy and shared values.

The university takes sustainable development and responsibility into account in teaching, research and other operations.
Publications related to sustainability 2019

Number and share of all publications

<table>
<thead>
<tr>
<th>Type</th>
<th>Sustainable development research (no.)</th>
<th>All research (no.)</th>
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</thead>
<tbody>
<tr>
<td>Bachelor's thesis</td>
<td>132</td>
<td>1044</td>
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<tr>
<td>Master's thesis</td>
<td>160</td>
<td>1757</td>
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<td>Doctoral dissertations</td>
<td>43</td>
<td>236</td>
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<tr>
<td>Articles</td>
<td>359</td>
<td>2314</td>
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<tr>
<td>Conference proceedings</td>
<td>48</td>
<td>728</td>
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<tr>
<td>Book chapters</td>
<td>14</td>
<td>141</td>
</tr>
</tbody>
</table>

Sustainable development was the topic of 12% of all publications at Aalto in 2019.

In addition, numerous research projects are indirectly linked to sustainability via e.g. utilisation of research results.
Personnel

38% of the academic faculty is international.
The number of full-time equivalent personnel was 4 125.
Personnel structure 2010–2019

- Post-doc researchers
- Professors
- Other teaching and research personnel
- Service personnel
- Doctoral students
- Students (research and teaching assistants)
Finance

In 2019, the pro forma operative income totalled €339 million.

Main sources of income were government funding, €212 million, and grant income from Academy of Finland, EU and Business Finland, €83 million.
Sources and uses of funds 2019

Sources €371m
- Government funding (MEC) 57%
- Other public funding * 22%
- Corporate funding 4%
- Other funding 7%
- Spending from surplus and endowment 10%

Uses €371m
- Depreciations 3%
- Other expenses ** 10%
- Service purchases 11%
- Facilities 12%
- Service personnel 19%
- Academic personnel 45%

* Other public funding consists of funding from the Academy of Finland, Business Finland and EU.
** Consists of e.g. travel expenses, materials and supplies.
Income and expenses 2010–2019
€ million

INCOME

EXPENSES

* Other public funding consists of funding from the Academy of Finland, Business Finland and EU.

** Consists of e.g. travel expenses, materials and supplies.