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2016-2018 Average Number of Technical Graduates, thousand

Top Technical Universities in Ukraine 2018
- National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute" - 4,314 tech graduates
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- Scatec Solar
- HEAD
- ALSTOM
- IKEA

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**Key Facts**

- Skilled human capital
- Competitiveness
- Innovation & Opportunity
- Creativity
- Brains & Grains
- Foodbasket to the world
- 1/3 of Europe’s arable land

**Real GDP (constant 2010 $), $ billion**

<table>
<thead>
<tr>
<th>Year</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
<th>2019F</th>
<th>2020F</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>121.2</td>
<td>124.2</td>
<td>127.2</td>
<td>131.5</td>
<td>135.1</td>
<td>139.1</td>
</tr>
</tbody>
</table>

- Expansionary economy trend since 2015

**Inflation rate, %**

<table>
<thead>
<tr>
<th>Year</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
<th>2019F</th>
<th>2020F</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>2.3%</td>
<td>2.5%</td>
<td>2.7%</td>
<td>3.0%</td>
<td>2.8%</td>
<td>2.6%</td>
</tr>
</tbody>
</table>

- Unemployment 2018: 9.1 %
- State debt as % of GDP 2018: 62.7 %

**FDI Inflow, $ billion**

<table>
<thead>
<tr>
<th>Year</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>4.3</td>
<td>4.4</td>
<td>2.5</td>
<td>2.9</td>
</tr>
</tbody>
</table>

**2018 FDI Inflow by Type of Economic Activity, %**

- Industry: 14%
- Real Estate: 8%
- Consumer Goods: 11%
- Food: 3%
- Pharmaceuticals: 13%
- Finance: 42%
- Other: 8%

**Export Structure 2018, %**

- Machinery & Equipment: 10%
- Chemicals: 9%
- Food: 30%
- Minerals: 69%
- Other: 7%

**Price Rental Terms 2018, $/m²**

<table>
<thead>
<tr>
<th>Country</th>
<th>Rent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ukraine</td>
<td>93.2</td>
</tr>
<tr>
<td>CEE Average</td>
<td>3.1</td>
</tr>
</tbody>
</table>

**Average Gross Monthly Salary 2019, $**

<table>
<thead>
<tr>
<th>Country</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ukraine</td>
<td>1,260</td>
</tr>
<tr>
<td>Romania</td>
<td>1,210</td>
</tr>
<tr>
<td>Hungary</td>
<td>1,310</td>
</tr>
<tr>
<td>Poland</td>
<td>1,260</td>
</tr>
</tbody>
</table>

**Unemployment Rate 2018, %**

<table>
<thead>
<tr>
<th>Country</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ukraine</td>
<td>4.9</td>
</tr>
<tr>
<td>Romania</td>
<td>3.5</td>
</tr>
<tr>
<td>Poland</td>
<td>3.6</td>
</tr>
<tr>
<td>Slovakia</td>
<td>5.6</td>
</tr>
</tbody>
</table>

**Social Security Tax Rate (Employer + Employee), %**

<table>
<thead>
<tr>
<th>Country</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ukraine</td>
<td>19.2</td>
</tr>
<tr>
<td>Romania</td>
<td>16.3</td>
</tr>
<tr>
<td>Poland</td>
<td>17.2</td>
</tr>
<tr>
<td>Slovakia</td>
<td>16.3</td>
</tr>
</tbody>
</table>

**Corporate Profit Tax Rate, %**

<table>
<thead>
<tr>
<th>Country</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ukraine</td>
<td>17.0</td>
</tr>
<tr>
<td>Romania</td>
<td>12.0</td>
</tr>
<tr>
<td>Poland</td>
<td>11.0</td>
</tr>
<tr>
<td>Slovakia</td>
<td>9.0</td>
</tr>
</tbody>
</table>

**IT Sector**

Ukraine’s IT industry is among the country’s fastest growing industries. It is also diverse, from cutting edge work in AI, cyber security, natural language processing and nanotechnologies to highly commercial ventures in blockchain, FinTech, big data management, gaming, agribusiness and e-commerce.

**Ukraine IT Outsourcing Market, $ million**

- 110+ global high-tech R&D facilities
- Top 3 IT specialists globally
- 17 FTAs with 46 countries (2019)
- Big Mac Price $1.94
- Average growth: 25%

**Startup Investment, $ million**

**Largest Investments in Ukrainian Startups, 2017-2018**

- Cloud services for programmers, $130M
- Online spell & grammar checking platform, $110M
- Full-service blockchain technology, $110M
- Synthetic data platform for deep learning apps, $70M

Over 110 global players have located R&D facilities in Ukraine, further driving the high-tech sector. International Companies with R&D Facilities in Ukraine

Sources: State Statistics Service of Ukraine, National Bank of Ukraine, Ministry of Economic Development and Trade of Ukraine, UkraineInvest estimates
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### Average Annual Software Engineering Salary (February 2019), $ thousand

- USA: 110
- Norway: 72
- Denmark: 70
- Israel: 64
- Germany: 54
- Australia: 49
- Canada: 48
- France: 41
- UK: 40
- Ukraine: 25

According to Gartner, a global research and advisory firm, Ukraine's IT specialists rank first in Eastern Europe in terms of price/quality ratio.

### Median Net Salaries of IT Specialists 2018, $ thousand

- QA Engineer: 1.5, 1.3, 1.4, 1.4, 1.4
- Project Manager: 2.0, 1.4, 1.8, 1.9, 1.8
- Team Leader: 3.0, 3.2, 3.3, 3.3, 3.3

### 2016-2018 Average Number of Technical Graduates, thousand

- Bachelor's degree: 16
- Specialist's degree: 4
- Master's degree: 5

### IT Clusters in Ukraine

- Kyiv: 250+ IT companies, 630+ IT specialists
- Lviv: 220+ IT companies, 550+ IT specialists
- Odesa: 190+ IT companies, 380+ IT specialists
- Dnipropetrovsk: 170+ IT companies, 380+ IT specialists

### Top Technical Universities in Ukraine 2018

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- Lviv Polytechnic University: 2,675 tech graduates
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### Sources:
- Software Development in Ukraine, Poland, Belarus and Romania Report 2019, daxx.com, dou.ua, UkraineInvest estimates
- Historical data on IT clusters and top technical universities
- Median net salaries of IT specialists 2018
- Average annual software engineering salary (February 2019)

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2016-2018 Average Number of Technical Graduates, thousand

Bachelor's degree 16
Master's degree 5
Specialist's degree 4

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IT Clusters in Ukraine

Kyiv
- 630+ IT companies
- 40k+ IT specialists

Lviv
- 250+ IT companies
- 15k+ IT specialists

Odesa
- 150+ IT companies
- 8k+ IT specialists

Dnipropetrovsk
- 170+ IT companies
- 6k+ IT specialists

Kharkiv
- 400+ IT companies
- 30k+ IT specialists

Dnipro
- 200+ IT companies
- 25k+ IT specialists

Ukraine
- 170+ IT companies
- 40k+ IT specialists

Sources: Software Development in Ukraine, Poland, Belarus and Romania Report 2019, daxx.com, dou.ua, UkraineInvest estimates

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Statistical Investment Brochure 2019

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