We asked you...
How to boost the Oil & Gas industry - academia cooperation?

Tamara Seres and Zaid Al Khateeb
YPC WPC Survey Co-Leaders
We wanted to hear YOUR OPINION.... so we launched the Survey

“University Campus to Workplace: How to Boost the Oil & Gas Industry - Academia Cooperation”

1000 responses from 74 countries Across 6 continents

with the help of Survey Ambassadors....
...from all around the world

Top Country Response Rates

<table>
<thead>
<tr>
<th>Country</th>
<th>Response Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>KUWAIT</td>
<td>9%</td>
</tr>
<tr>
<td>RUSSIAN FEDERATION</td>
<td>9%</td>
</tr>
<tr>
<td>OMAN</td>
<td>7%</td>
</tr>
<tr>
<td>CHINA</td>
<td>7%</td>
</tr>
<tr>
<td>IRAN</td>
<td>7%</td>
</tr>
<tr>
<td>SPAIN</td>
<td>7%</td>
</tr>
<tr>
<td>NORWAY</td>
<td>6%</td>
</tr>
<tr>
<td>SERBIA</td>
<td>5%</td>
</tr>
<tr>
<td>KAZAKHSTAN</td>
<td>5%</td>
</tr>
<tr>
<td>BRAZIL</td>
<td>4%</td>
</tr>
<tr>
<td>INDIA</td>
<td>3%</td>
</tr>
<tr>
<td>POLAND</td>
<td>3%</td>
</tr>
<tr>
<td>TURKEY</td>
<td>3%</td>
</tr>
<tr>
<td>FRANCE</td>
<td>2%</td>
</tr>
<tr>
<td>EGYPT</td>
<td>2%</td>
</tr>
<tr>
<td>HUNGARY</td>
<td>2%</td>
</tr>
<tr>
<td>USA</td>
<td>2%</td>
</tr>
<tr>
<td>CANADA</td>
<td>2%</td>
</tr>
<tr>
<td>GERMANY</td>
<td>1%</td>
</tr>
</tbody>
</table>
We aimed to get a sense of...

Students aspiring for a career in the Oil & Gas industry

and Young Professionals working in the Oil & Gas industry

and your perception and personal experience on industry-academia partnerships
What is the general profile of respondents in our network?

Educational background:
- Bachelor Degree or eq.: 36%
- Master Degree or eq.: 44%
- PhD or eq.: 8%
- High School or eq.: 7%
- Technical Qualification or eq.: 4%
- Other: 1%

Respondent’s Age:
- 36+ years: 17%
- 33-35 years: 17%
- 29-32 years: 24%
- 24-28 years: 24%
- 19-23 years: 6%
- 18 & under: 12%

Data sources:
- WPC YPC 2019 Survey

Additional information:
- 30% students
- 70% Young Professionals
- 38% women
- 55% engineers
- 51% Petroleum Engineers

Source: WPC YPC 2019 Survey
You are active participants in the Oil & Gas industry - academia cooperation...

66% of students and 55% of Young Professionals have benefited from the Oil & Gas industry-academia cooperation

60% of Young Professionals believe this was decisive for their employment in the Oil & Gas industry

Source: WPC YPC 2019 Survey
You have participated mostly in...

<table>
<thead>
<tr>
<th>Activity</th>
<th>Students</th>
<th>YPs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guest lectures of Industry experts</td>
<td>43%</td>
<td>55%</td>
</tr>
<tr>
<td>Internships</td>
<td>43%</td>
<td>42%</td>
</tr>
<tr>
<td>Conferences with industry experts</td>
<td>39%</td>
<td>40%</td>
</tr>
<tr>
<td>Had volunteer experiences</td>
<td>20%</td>
<td>34%</td>
</tr>
<tr>
<td>Industry site visits</td>
<td>38%</td>
<td>30%</td>
</tr>
<tr>
<td>Had a student scholarship</td>
<td>23%</td>
<td>26%</td>
</tr>
<tr>
<td>I worked on an R&amp;D project</td>
<td>28%</td>
<td>25%</td>
</tr>
<tr>
<td>Industry-sponsored competitions</td>
<td>24%</td>
<td>18%</td>
</tr>
<tr>
<td>Industry-based final year project</td>
<td>24%</td>
<td>17%</td>
</tr>
<tr>
<td>A mentorship program</td>
<td>13%</td>
<td>18%</td>
</tr>
<tr>
<td>Worked in academic facility / on equipment funded by a company</td>
<td>11%</td>
<td>13%</td>
</tr>
<tr>
<td>Other</td>
<td>2%</td>
<td>10%</td>
</tr>
</tbody>
</table>

Note: Respondents were allowed to select multiple answers that apply.

Source: WPC YPC 2019 Survey
Among all the opportunities to gain during studies

You highlight **internships** as the **most rewarding opportunity** you can gain during studies.

- **Guest lectures of Industry experts**: 36% (Students) 53% (YPs)
- **An internship**: 52% (Students) 40% (YPs)
- **Conferences with industry experts**: 57% (Students) 40% (YPs)
- **Had a volunteer experience**: 62% (Students) 36% (YPs)
- **Industry site visits**: 78% (Students) 53% (YPs)

*Note: Top 5 responses - respondents were allowed to select multiple answers that apply.*
But over ONE THIRD of your peers still haven’t been reached by cooperation programmes

While the vast majority of you wish to be engaged and trust you can contribute

- Investing time and energy in exchange for experience
- Providing creative solutions to industry needs
- Developing joint projects of common interest

For Students:
- Sharing my knowledge/expertise in a specific field
- Career development guidance for students
- Sharing challenges to support problem-based learning

For Young Professionals:
- Providing creative solutions to industry needs
- Developing joint projects of common interest

Source: WPC YPC 2019 Survey
You believe in life-long learning...

95% of your peers employed in the Oil & Gas industry have interest in participating in programmes in cooperation with universities to...

Source: WPC YPC 2019 Survey

Note: Respondents were allowed to select multiple answers that apply.
We aimed to understand your views on joint Research & Development….

Around half of our respondents confirm they have had the opportunity to take part in R&D projects between the Oil & Gas industry and academia.

Source: WPC YPC 2019 Survey

Note: Top 5 responses. Respondents were allowed to select multiple answers that apply.
We wanted to sense your perception of university curriculum and industry trends...

70% of student respondents are confident that their curriculum is closely aligned with industry trends and technological developments...

while this confidence decreases among those that have found employment and encountered workplace challenges.

Source: WPC YPC 2019 Survey
We pulsed your concerns & expectations...

72% of students fear of lack of job opportunities and of skill-sets

Trust by majority that work experience during studies will be decisive for their employment

Those employed admit that their employment expectations were not realistic and they experienced hurdles

<table>
<thead>
<tr>
<th>Issue</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lack of job opportunities</td>
<td>33%</td>
</tr>
<tr>
<td>Lack of required skills-set for a specific job</td>
<td>28%</td>
</tr>
<tr>
<td>Lack of understanding of work environment</td>
<td>23%</td>
</tr>
</tbody>
</table>

Source: WPC YPC 2019 Survey
You believe in the power of NETWORKS

51% are members of professional associations

76% of which have participated in industry-academia cooperation

and take advantage of INTERNATIONALIZATION and MOBILITY

25% completed HE studies abroad or combined home-based and international education

16% currently based outside your home countries

Source: WPC YPC 2019 Survey
It is ENCOURAGING that given the opportunity to start again and you give a POSITIVE RATING of your experience on the overall Oil & Gas industry – academia cooperation.

72% of students and 68% of Young Professionals would still choose to follow the same educational path.

Source: WPC YPC 2019 Survey

3.02 Average rating
When asked about the most important CONTRIBUTORS TO ECONOMIC DEVELOPMENT, you believe the INDUSTRY has the leading role..
WPC Young Professionals Vision Statement

Shaping the global energy future by bringing together the passion and talents of industry students, young professionals and emerging leaders.
Thank you

Tamara Seres
YPC WPC Member from Serbia (Alternate)
tamara.seres@wpcserbia.rs
+381 69 8851 928

Zaid Al-Khateeb
YPC WPC Member from Kuwait
zkhateeb@kgoc.com
+965 99423 989