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PROFILE OF A UNIVERSITY RESEARCHER INVOLVED IN COOPERATION WITH ENTERPRISES IN POLAND

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Purpose of the article: presentation of research results on the state of cooperation and selected characteristics of scientists from technical universities undertaking relations with enterprises.

Research questions: Do scientists of technical universities cooperate with enterprises? Do they have professional experience working in a company? How many companies do they cooperate with? Are variables such as gender, degree or academic title, field of research, implementation of research grants important for undertaking cooperation and its frequency?

Research method: survey research using the CAWI technique.

Inference methods: descriptive statistics and chi-square tests of independence.

Theoretical part: the current knowledge on the factors stimulating scientists to cooperate with the enterprise sector was presented.

The empirical part: the results of a nationwide research conducted on a sample of 526 scientists from 18 technical universities in Poland are presented.

Conclusions from the research:

- the vast **majority of respondents (92.5%) cooperated with enterprises** in the last 3 years;
- a large percentage of the **respondents also have experience in working in an enterprise (42.1%)**;
- most often scientists collaborated with 1-2 enterprises (40.4%);
- among the individual characteristics of a scientist, determining the likelihood of him establishing cooperation with enterprises and the intensity of such cooperation, a statistically significant effect was noted only for two variables: **gender and possession of a grant**. Men who do not implement grants cooperate with enterprises much more often and intensively. Male scientists are more likely to engage in more interactions with enterprises than women. In particular, there is such a significant statistical difference in more than 6 number of interactions;
- **the degree or title of the researcher**, in the light of the research results, **does not have a significant impact on the fact of undertaking cooperation with enterprises**, but it already matters in the case of the number of entities with which the interaction is undertaken;
- scientists with **the degree of EngD** they cooperate several times more often with a larger number of enterprises than respondents with a different degree or title;
- the largest group of respondents were representatives of engineering and technical sciences (compared to exact and natural and social sciences), however, no statistical significance was shown that conducting research in this area increases the probability of establishing cooperation with the enterprise sector

Selected research results:

Table 1. Pearson's chi-square test of independence – dependent variable (gender, research field, possessing a grant, academic degree) and cooperation or frequency of cooperation

		Chi -Square	df	p-value
Gender	Cooperation with enterprises	3,871	1	0,049
	Frequency of cooperation with enterprises	18,275	4	0,001
Research field	Cooperation with enterprises	3,086	4	0,543
	Frequency of cooperation with enterprises	24,937	16	0,071
Possessing a grant	Cooperation with enterprises	4,511	1	0,034
	Frequency of cooperation with enterprises	33,491	4	<0,001
Academic degree / title	Cooperation with enterprises	10,557	6	0,103
	Frequency of cooperation with enterprises	41,465	24	0,015

THE PROFILE OF ACADEMICS FROM TECHNICAL UNIVERSITY IN POLAND COOPERATING WITH ENTERPRISES



- ✓ MAN
- ✓ HAS EXPERIENCE AT WORK IN AN ENTERPRISE
- ✓ DOES NOT REALIZE THE GRANT
- ✓ Doctor of Engineering (EngD)
- ✓ COLLABORATED WITH 1-2 ENTERPRISES