**The Faculty of Technology and Education carries out research projects under agreements with the National Science Centre:**

| PROJECT TITLE | PROJECT COORDINATOR | PROJECT TYPE | DURATION |
|---|---|---|---|
| Multicriteria optimization of gradient coatings due to anti-wear properties. | Adam Gilewicz, Ph.D | OPUS | 2017-2019 |
| Methods and procedures of selecting vibro-isolation properties of vibration reduction systems. | Prof. Tomasz Krzyżyński | OPUS | 2014-2017 |
| Optimization of device construction and deposition technology of ta-C coatings using Taguchi method of experiment design. | Viktor Zavaleyev, M.Sc. | PRELUDIUM | 2014-2015 |
| New, advanced composite wear-resistant coatings on austenitic steel. | Prof. Witold Gulbiński | OPUS | 2012-2015 |
| Investigations of stresses states evolution in multilayer protective coatings deposited via PVD method. | Łukasz Szparaga, Ph.D. | PRELUDIUM | 2012-2014 |
| Modification of diamond powder in rotational chamber of plasma-chemical reactor. | Przemysław Ceynowa, M.Sc. | PRELUDIUM | 2012-2014 |
| Research on hybryd electromagnetic positioning device. | Prof. Tomasz Krzyżyński | SUPERVISOR'S RESEARCH GRANT | 2009-2011 |
| Optimization of the acoustic properties of a closed room considered in the low frequency range. | Prof. Tomasz Krzyżyński | SUPERVISOR'S RESEARCH GRANT | 2009-2011 |
| Thick modified carbon coatings for applications in tribological systems. | Prof. Andrzej Czyżniewski | APPLIED RESEARCH | 2008-2011 |
| Development of control module of gas nitriding process based on complementary interaction with mathematical model and the magnetic sensor readings registering layer nucleation and growth. | Prof. Jerzy Ratajski | SUPERVISOR'S RESEARCH GRANT | 2009-2010 |
| Research into the effectiveness of pneumatic vibro-isolation systems used | Prof. Tomasz | | |

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| Vibro-isolation systems used to protect industrial and construction machinery operators from vibrations. | Prof. Tomasz Krzyżyński | APPLIED RESEARCH | 2008-2010 |
| Multi-objective optimization of the design and control of the electromagnetic linear launcher applied to high-performance, gearless linear actuator with the working tool. | Prof. Wojciech Tarnowski | SUPERVISOR'S RESEARCH GRANT | 2008-2010 |
| Accelerometric method of monitoring of ball joints in vehicles front suspension plays on their traction properties. | Prof. Wojciech Tarnowski | SUPERVISOR'S RESEARCH GRANT | 2008-2009 |