



**A list of potential PhD supervisors and research topics
for candidates to the Doctoral School of the Koszalin University of Technology
in the academic year 2025/2026**

Click on a topic to open a research topic description sheet.

Click on a supervisor's name to check the details.

ATTENTION!

Supervisors can submit their research topics on an ongoing basis.

An application form is available on szkoladoktorska.tu.koszalin.pl, in section “[Rekrutacja/Promotorzy i tematyka/Karty zgłoszenia tematyki badawczej](#)”

PhD supervisor	Submitted research topics
Mechanical engineering	
prof. dr hab. inż. Witold Gulbiński	New coatings improving tribological properties and corrosion resistance of metal alloys for medical applications
prof. dr hab. inż. Waldemar Kuczyński	Study of the phenomenon of condensation of pro-environmental refrigerant mixtures in compact heat exchangers fabricated by 3D printing from metal powders
prof. dr hab. inż. Waldemar Kuczyński	Study of the phenomenon of temperature slippage (pinch-point) during phase transformations of pro-ecological refrigerants in mini-channels
prof. dr hab. inż. Krzysztof Nadolny	Investigations into the influence of pro-ecological methods of delivery cooling, lubricating and antiadhesive media to the machining zone on the course and results of the grinding process
dr hab. inż. Tomasz Rydzkowski, prof. PK	Processing and testing of properties of classical and biodegradable polymeric materials as well as composites. The subject matter covers processing and recycling and may also include foamed materials such as expanded polystyrene (EPS) and composites based on it
dr hab. inż. Tomasz Rydzkowski, prof. PK	Research on the production, properties, welding, and recycling of both conventional and biodegradable packaging films. The scope may include monolithic and multilayer films, modified films, as well as shrink films



Civil engineering, geodesy and transport	
dr hab. inż. Norbert Chamier-Gliszczyński, prof. PK	Modelling systems in selected areas of transport and logistics
dr hab. inż. Jacek Domski, prof. PK	Application of cement composites based on various materials in structural building elements
dr hab. inż. Mirosław Wesołowski, prof. PK	Constitutive material model of composite structures produced by the additive manufacturing
Political science and public administration	
dr hab. Marek Górka, prof. PK	Security Policy and Cybersecurity of a Modern State
dr hab. Marek Górka, prof. PK	Political Competition in the Polish Political System: Conditions, Process, and Political Consequences
prof. dr hab. Jacek Knopek	Topics of the doctoral dissertation in the following subdisciplines: - political systems, - international political relations, - political, social, and civilizational transformations, - specific policies – nationality, ethnicity, and Polish diaspora, - regional policy
prof. dr hab. Bogusław Polak	Polish independence exile 1945-1990. The politics of memory in the face of the crimes committed against the Polish nation 1939-2024
dr hab. Michał Polak, prof. PK	Activities of Polish independence emigration after World War II - political, economic, cultural and social aspects
dr hab. Michał Polak, prof. PK	A multifaceted analysis of collective memory of 20th-century events at the regional, national and international levels
Fine arts and art conservation	
dr hab. Przemysław Majchrzak, prof. PK	Searching for pro-social design solutions with particular emphasis on facilities supporting rehabilitation and health-promoting activities
dr hab. Przemysław Majchrzak, prof. PK	Searching for aesthetic and structural solutions in lighting elements used in the infrastructure of cities or villages



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<u>dr hab. Anna Szklińska, prof. PK</u>	<u>Between form and function. Exploring the fourth dimension of form in the context of the challenges of the contemporary world.</u> <u>Shape of Touch. Haptic forms. The study of the role of the senses in contemporary design.</u> <u>Embodiment of the object - objectification of the body. Exploring the influence of technology on contemporary forms of artistic and design expression.</u>
<u>dr hab. Monika Zawierowska-Łozińska, prof. PK</u>	<u>The impact of technology on developing and expanding design possibilities in the field of publication design in the context of exploring structures, constructions made of paper or alternative materials</u>