SDGs-ALIGNED INTERNATIONAL RESEARCH GROUPS

We are pleased to invite researchers from different countries and universities to join our **Working Groups (WGs)**, which have been established to foster **interdisciplinary and international academic collaboration** aligned with the United Nations Sustainable Development Goals (SDGs).

The Working Groups bring together scholars from engineering, natural sciences, health sciences, social sciences, and humanities to support **joint research activities**, **scientific publications**, **international project proposals**, **joint doctoral and postgraduate initiatives**, **researcher mobility**, and the development of sustainable academic networks.

Each Working Group is designed to enable participating researchers to:

- Join thematically relevant research groups aligned with their expertise,
- Contribute to international research consortia and collaborative projects,
- Share academic knowledge and research experience,
- Develop long-term institutional and individual research partnerships.

Researchers who are interested in contributing to these Working Groups are kindly invited to complete the **participation form**.

Your participation will play a valuable role in strengthening international, interdisciplinary, and impact-oriented academic cooperation.

Sincerely,
Selçuk University
Office of Dean of Research

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Selçuk Üniversitesi Araştırma Dekanlığı, Alaeddin Keykubat Kampüsü, Akademi, Yahya Kemal Beyatlı Cd. No:367 Selçuklu/Konya, Türkiye

WG 1: Semiconductor Materials & Functional Thin Films
Aligned SDGs:
SDG 7 (Affordable and Clean Energy)
SDG 9 (Industry, Innovation and Infrastructure)
SDG 13 (Climate Action)
Scope / Thematic Focus:
Advanced semiconductor and thin-film materials for photocatalysis, photovoltaics, sensing, and hydrogen-related applications.

WG 2: Optoelectronics, Photonics & Sensor Systems
Aligned SDGs:
SDG 9 (Industry, Innovation and Infrastructure)
SDG 11 (Sustainable Cities and Communities)
Scope / Thematic Focus:
Photonic devices, flexible optoelectronics, optical sensors, and integrated sensing systems.

WG 3: Sustainable Energy Generation & Conversion
Aligned SDGs:
SDG 7 (Affordable and Clean Energy)
SDG 9 (Industry, Innovation and Infrastructure)
SDG 13 (Climate Action)
Scope / Thematic Focus:
Renewable energy systems, energy conversion, combustion optimization, and decarbonization technologies.

WG 4: Energy Storage & Electrochemical Systems
Aligned SDGs:
SDG 7 (Affordable and Clean Energy)
SDG 12 (Responsible Consumption and Production)
SDG 13 (Climate Action)
Scope / Thematic Focus:
Electrochemical energy storage materials, batteries, supercapacitors, and system integration.

WG 5: Water Treatment, Desalination & Resource Recovery
Aligned SDGs:
SDG 6 (Clean Water and Sanitation)
SDG 12 (Responsible Consumption and Production)
SDG 14 (Life Below Water)
Scope / Thematic Focus:
Water purification, desalination, adsorption, selective separation, and industrial waste valorization.

WG 6: Integrated Water Resource Monitoring & Geospatial Systems
Aligned SDGs:
SDG 6 (Clean Water and Sanitation)
SDG 11 (Sustainable Cities and Communities)
SDG 13 (Climate Action)
Scope / Thematic Focus:
IWRM, GIS and remote sensing for water governance, monitoring, and climate resilience

WG 7: Smart Agriculture & Precision Irrigation
Aligned SDGs:
SDG 2 (Zero Hunger)
SDG 6 (Clean Water and Sanitation)
SDG 13 (Climate Action)
Scope / Thematic Focus:
Smart irrigation systems, precision agriculture, climate-adaptive farming, and resource-efficient crop management in semi-arid regions.

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WG 8: Bio-Resources, Biotechnology & Bioactive Compounds
Aligned SDGs:
SDG 2 (Zero Hunger)
SDG 9 (Industry, Innovation and Infrastructure)
SDG 12 (Responsible Consumption and Production)
Scope / Thematic Focus:
Sustainable production of bioactive compounds, spirulina and phycocyanin, medicinal plants, and bio-based industrial processes.

WG 9: Control Systems, Automation & Intelligent Diagnostics
Aligned SDGs:
SDG 9 (Industry, Innovation and Infrastructure)
SDG 12 (Responsible Consumption and Production)
Scope / Thematic Focus:
Control, optimization, fault diagnosis, predictive maintenance, and intelligent monitoring of complex systems.

WG 10: Robotics & Autonomous Systems
Aligned SDGs:
SDG 9 (Industry, Innovation and Infrastructure)
SDG 11 (Sustainable Cities and Communities)
Scope / Thematic Focus:
Autonomous robotic systems, human–robot interaction, industrial and service robotics.

WG 11: Communication Systems, Antennas & Electromagnetics
Aligned SDGs:
SDG 9 (Industry, Innovation and Infrastructure)
SDG 11 (Sustainable Cities and Communities)
Scope / Thematic Focus:
Advanced antenna systems, wireless communications, radar technologies, and electromagnetic applications.

WG 12: Biomedical Engineering & Neuro-Technologies
Aligned SDGs:
SDG 3 (Good Health and Well-Being)
SDG 9 (Industry, Innovation and Infrastructure)
Scope / Thematic Focus:
Biomedical devices, neuro-technologies, biomedical signal processing, and AI-assisted health diagnostics.

WG 13: Quantum Technologies & Cryogenic Electronics
Aligned SDGs:
SDG 9 (Industry, Innovation and Infrastructure)
Scope / Thematic Focus:
Quantum-ready electronic systems, cryogenic circuits, and low-temperature microelectronics.

WG 14: Sustainable Built Environment & Thermal Performance
Aligned SDGs:
SDG 11 (Sustainable Cities and Communities)
SDG 12 (Responsible Consumption and Production)
SDG 13 (Climate Action)
Scope / Thematic Focus:
Energy-efficient buildings, thermal comfort, sustainable construction materials, and climate-responsive architecture.

WG 15: Health Systems, Public Health & Medical Education
Aligned SDGs:
SDG 3 (Good Health and Well-Being)
SDG 4 (Quality Education)
SDG 10 (Reduced Inequalities)
Scope / Thematic Focus:
Public health systems, preventive medicine, medical education, health policy, and equitable healthcare access.

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WG 16: Society, Inequality & Human Well-Being **Aligned SDGs:** SDG 1 (No Poverty) SDG 5 (Gender Equality) SDG 10 (Reduced Inequalities) **Scope / Thematic Focus:** Social inclusion, inequality, migration, mental health, resilience, and behavioral change for sustainability.
WG 17: Governance, Law & Sustainable Policy Frameworks **Aligned SDGs:** SDG 16 (Peace, Justice and Strong Institutions) SDG 17 (Partnerships for the Goals) **Scope / Thematic Focus:** Environmental and energy law, climate governance, policy design, regulatory impact assessment, and international agreements.
WG 18: Ethics, Digital Governance & Human-Centered Transformation **Aligned SDGs:** SDG 9 (Industry, Innovation and Infrastructure) SDG 16 (Peace, Justice and Strong Institutions) SDG 17 (Partnerships for the Goals) **Scope / Thematic Focus:** Ethics of AI, digital governance, data protection, inclusive digital public services, trust, and accountability.
WG 19: Economy, Finance & Responsible Business **Aligned SDGs:** SDG 8 (Decent Work and Economic Growth) SDG 9 (Industry, Innovation and Infrastructure) SDG 12 (Responsible Consumption and Production) **Scope / Thematic Focus:** Circular economy, sustainable finance, ESG frameworks, entrepreneurship, and climate–economy interactions.
WG 20: Culture, Languages & Knowledge Sustainability **Aligned SDGs:** SDG 4 (Quality Education) SDG 10 (Reduced Inequalities) SDG 16 (Peaceful and Inclusive Societies) **Scope / Thematic Focus:** Multilingualism, translation, cultural narratives, academic literacy, and equitable access to knowledge.
WG 21: Media, Science Communication & Sustainability Awareness **Aligned SDGs:** SDG 12 (Responsible Consumption and Production) SDG 13 (Climate Action) SDG 16 (Peace, Justice and Strong Institutions) **Scope / Thematic Focus:** Science and climate communication, media ethics, misinformation, public engagement, and risk communication.
WG 22: Sport, Physical Activity & Social Cohesion **Aligned SDGs:** SDG 3 (Good Health and Well-Being) SDG 11 (Sustainable Cities and Communities) SDG 16 (Peaceful and Inclusive Societies) **Scope / Thematic Focus:** Sport for health promotion, inclusion, social cohesion, peace-building, and sustainable sport infrastructure.

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