**Curriculum Vitae**

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| **Personal Information** | **Name** | Jolanta Baran | **Gender** | Female | **photo** |
| **Academic Title** | PhD Eng. | | |
| **College** | Silesian University of Technology  Faculty of Organization and Management  Department of Economy and Informatics | | |
| [**Discipline**](http://dict.cn/discipline) | Environmental Engineering  Management Sciences | | | |
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| **Educational**  **Background** | * **PhD (Doctor of Technical Sciences - Environmental Engineering and Protection)** Central Mining Institute, Katowice, Poland (2005–2007)   + Thesis: *The method of integrated environmental and economic life cycle assessment on the example of the hard coal mine*.   + Focus: Environmental engineering and protection. * **Master of Science (Higher Master’s Studies - Management and Marketing)** Silesian University of Technology, Zabrze, Poland (1994–1999)   + Specialization: Enterprise Management and Industrial Marketing.   + Activities: Member of the Academic Circle "Eco-management." * **Additional Training and Certifications**:   + **Expert of Cleaner Production** Association "Polish Movement of Cleaner Production," Katowice, Poland (2019–2021) Training program completed with a final exam based on a project.   + **In-depth use of SimaPro** PRe Sustainability, Netherlands (November 2019).   + **PEF/OEF Training** DG ENV B1 Sustainable Production, Products & Consumption, Poznań, Poland (2019).   + **Study of Pedagogical Development for Academic Teachers** Silesian University of Technology, Gliwice, Poland (2002–2003).   + **Environmental Management Program (TEAMS)** Emisoft, Bergen, Norway (2003).   Languages:   * Polish (Native) * English (Fluent) | | | | |
| **Working Experience** | **Assistant Professor** *Silesian University of Technology* Zabrze, Poland (02/2002 – Present)   * Conducting research and publishing scientific articles and monographs on topics such as life cycle assessment (LCA), carbon footprint, eco-design, and environmental management. * Active participation in conferences, research projects, and collaborations with industry on LCA, Carbon Footprint, and sustainable design. * Teaching courses in Life Cycle Assessment, Environmental Protection, Environmental Management, and Economics of Sustainable Development for students of Business Analytics, Management, Logistics, and Informatics. * Supervising MSc theses using LCA tools (e.g., MIPS, ERPA matrix, Carbon Footprint). * Lecturing internationally at Tomas Bata University (Czech Republic, 2018) and Georgian Technical University (Georgia, 2023) under the Erasmus+ program. * Created and supervised the Laboratory of Engineering Design and Life Cycle Management. * Received multiple rector’s awards for research and teaching excellence.   **ESG Expert** *Pracownia ESG* Pszczyna, Poland (10/2023 – Present)   * Conducting Life Cycle Assessment (LCA) and Carbon Footprint calculations for products and organizations. * ESG consulting, including support in developing net-zero decarbonization strategies. * Managing projects and delivering training sessions in ESG.   **ESG Expert** *PwC Poland* Warsaw, Poland (10/2023 – 03/2024)   * Calculating the Carbon Footprint of products and organizations. * ESG assurance in accordance with ISAE 3000. * Providing ESG-related training and consulting.   **ESG Manager** *PwC Poland* Warsaw, Poland (10/2021 – 09/2023)   * Leading ESG consulting projects, including developing decarbonization strategies. * Conducting Life Cycle Assessments and Carbon Footprint calculations. * Managing projects and conducting workshops and training sessions.   **Cooperation, LCA, and Carbon Footprint Expert** *Association "Polish Movement of Cleaner Production"* Katowice, Poland (2002 – 2022)   * Conducting training and expert activities on LCA, carbon footprint, and eco-design. * Delivered workshops and webinars on environmental analysis for businesses and consumers. * Participated as an expert in forums and conferences on circular economy and cleaner production.   **Deputy Chairman of the Silesian Affiliate** *Association "Polish Movement of Cleaner Production"* Katowice, Poland (2016 – 2020)  **LCA and Carbon Footprint Expert** *CANPACK Group* Kraków, Poland (05/2018 – 07/2019)  Coordinating and analyzing carbon footprint calculations for products and organizations. | | | | |
| **Research**  **Interests** | * **Life Cycle Assessment (LCA)**: Methodologies, applications, and integration in environmental management and sustainable development. * **Carbon Footprint Analysis**: Calculation and reduction strategies for products and organizations. * **Sustainable Development**: Exploring eco-design, green public procurement, and circular economy practices. * **Environmental Management**: Development and application of tools and strategies for environmental protection and sustainability. * **Green Public Procurement**: Incorporating environmental considerations into procurement processes. * **Eco-Design**: Designing products with a focus on minimizing environmental impact throughout their life cycle. * **Circular Economy**: Utilizing LCA and related tools to support circular economy transitions. * **ESG (Environmental, Social, and Governance)**: Analysis and reporting, including decarbonization strategies and sustainable business practices. | | | | |
| **Major**  **Publications\*** | * Baran J., Carbon footprint in non-financial reporting, Scientific Papers of Silesian University of Technology – Organization and Management Series 2023, No. 171, pp. 7-18. * Baran J., Żabińska I., Analysis of the environmental impact of the vertical parking solution using life cycle assessment, Scientific Papers of Silesian University of Technology. Organization and Management Series, 2023, No. 169, pp. 91-104. * Baran J., Miklis A., Żabińska I., Research towards sustainable parking solutions, Multidiscip. Asp. Prod. Eng., 2021 vol. 4 iss. 1, s. 376-386. * Baran J., Towards life cycle perspective in activities of small and medium enterprises in Poland, In: Sustainable economic development and advancing education excellence in the era of global pandemic. Proceedings of the 36th International Business Information Management Association Conference (IBIMA), Granada, Spain, 4-5 November 2020. Ed. Khalid S. Soliman. [B.m.]: International Business Information Management Association, 2020, pp. 10583-10591. * Baran J., Direct applications of product life cycle assessment in circular economy, Scientific Papers of Silesian University of Technology. Organization and Management Series, 2020, no. 148, pp. 55-75. * Baran J., Life cycle approach-based methods - overview, applications and implementation barriers, Scientific Papers of Silesian University of Technology. Organization and Management Series. 2019 no. 136, s. 9-23 * Baran J., Redesign of steam turbine rotor blades and rotor packages - Environmental analysis within systematic eco-design approach, Energy Conversion and Management 2016 vol. 116, pp. 18-31. * Baran J., Tandos D., Żabińska I., Comparative analysis of selected car parks, Multidiscip. Asp. Prod. Eng. 2021 vol. 4 iss. 1, s. 365-375. | | | | |
| **Research Projects\*** | * Project of the Association "Polish Movement of Cleaner Production" financed by The National Fund for Environmental Protection and Water Management in Poland, 2019-2022 - I was trainer for Workshops "Life cycle assessment (LCA), carbon footprint and ecodesign - new tools, methods and applications of environmental analyses in circular economy" for companies. * „Conditions, methods and effects of eco-innovations elaboration and implementation” – project financed by the National Science Center in Poland, 2011-2015 (team award of the Rector of Silesian University of Technology for achievements in the scientific field, 2016). | | | | |
| **Professional Membership** | **Sustainable Investment Forum Poland (POLSIF)**   * Ordinary Member (December 2023 – Present) * Supporting the development of the finance sector practitioner community in Poland to promote sustainable investments.   **Climate Leadership**   * Expert (October 2023 – Present) * Participating in initiatives and contributing expertise to the Climate Leadership program.   **Life Cycle Initiative (UN Environment)**   * Member (November 2017 – Present) * Engaged in advancing global understanding and implementation of life cycle approaches. | | | | |
| **Potential Research Projects\*\*** | **Integration of Life Cycle Assessment (LCA) in Circular Economy Practices**   * Exploring innovative applications of LCA to support the design, implementation, and assessment of circular economy strategies in various industries.   **Decarbonization Strategies for Businesses**   * Developing and testing frameworks for achieving net-zero carbon emissions in organizations, with a focus on product and organizational carbon footprints.   **Sustainable Public Procurement Models**   * Researching the integration of environmental criteria into public procurement processes, leveraging LCA and eco-design tools to promote sustainability.   **Carbon Footprint Benchmarking for Industries**   * Creating sector-specific benchmarks for carbon footprint reduction, utilizing case studies and data analytics to guide best practices.   **Environmental Management Tools for SMEs**   * Designing accessible tools and methodologies for small and medium-sized enterprises (SMEs) to adopt sustainable practices, including LCA, carbon footprint analysis, and eco-design.   **Eco-Design for Product Lifecycle Optimization**   * Investigating approaches to eco-design that minimize environmental impact while maximizing product functionality and economic feasibility.   **Education and Training in Sustainable Development**   * Developing innovative pedagogical approaches and materials for teaching environmental management, LCA, and sustainable development concepts at universities and industry workshops.   **ESG Reporting and Its Impact on Sustainable Business Practices**   * Examining the effectiveness of ESG reporting frameworks in driving sustainable business behavior and identifying key indicators of success.   **Green Innovation in Manufacturing Processes**   * Analyzing opportunities to integrate LCA tools into manufacturing processes to reduce environmental impacts and improve resource efficiency.   **Life Cycle Costing in Decision-Making**   * Combining economic and environmental life cycle assessments to provide a comprehensive decision-making framework for sustainable investments. | | | | |

**\*** Please list achievements of recent 5 years

**\*\*** This CV is intended to match Chinese and Polish Scientists within SPUC member universities, and Potential Research Projects is intended to apply for Sino-Polish or EU scientific cooperation projects.