Curriculum Vitae

<table>
<tr><td rowspan="7">Personal Information</td><td>Name</td><td>Sabina Lesz</td><td>Gender</td><td>Female</td><td rowspan="3">  </td></tr>
<tr><td>Academic Title</td><td colspan="3">Associate Professor</td></tr>
<tr><td>College</td><td colspan="3">Silesian University of Technology</td></tr>
<tr><td>Discipline</td><td colspan="4">Materials Science</td></tr>
<tr><td>Email</td><td colspan="4">Sabina.lesz@polsl.pl</td></tr>
<tr><td>Telephone (office)</td><td colspan="4">+48322371577</td></tr>
<tr><td>Mail Add.</td><td colspan="4">Faculty of Mechanical Engineering, Department of Materials Engineering and Biomaterials
18a Konarskiego St., office 282/6, 44-100 Gliwice, Poland</td></tr>
<tr><td>Educational Background</td><td colspan="5">D.Sc. (Habilitation) in Materials Engineering, Silesian University of Technology
Ph.D. in Materials Engineering, Silesian University of Technology
MSc. Eng. in Materials Science, Silesian University of Technology</td></tr>
<tr><td>Working Experience</td><td colspan="5">Associate Professor, Silesian University of Technology, Faculty of Mechanical Engineering, Department of Engineering Materials and Biomaterials (2017 – present)
Assistant Professor Silesian University of Technology, Faculty of Mechanical Engineering, Institute of Engineering Materials and Biomaterials (2002 – 2017)
Ph.D. Student / Assistant Silesian University of Technology, Faculty of Mechanical Engineering, Institute of Engineering Materials and Biomaterials (1997 – 2001)</td></tr>
<tr><td>Research Interests</td><td colspan="5">Materials Engineering, Amorphous and nanostructured materials, Steels, Degradable biomaterials, Heat treatment, Mechanical alloying, Powder metallurgy, Soft magnetic materials, Mg-based alloys</td></tr>
<tr><td>Major Publications*</td><td colspan="5">1. S. Lesz, B. Hrapkowicz, M. Karolus, K. Gołombek: Characteristics of the Mg-Zn-Ca-Gd Alloy after mechanical alloying, MATERIALS 14, 226 (2021) 1-14.
2. S. Lesz, J. Kraczla, R. Nowosielski: Synthesis of Mg-Zn-Ca alloy by the spark plasma sintering in “MATERIALS DESIGN AND APPLICATIONS II. Ed.: Lucas F. M. da Silva, Springer (2019) 85-96.
3. S. Lesz</b, J. Kraczla, R. Nowosielski: Structure and compressive strength characteristics of the sintered MgZnCaGd alloy for medical applications, ARCHIVES OF CIVIL AND MECHANICAL ENGINEERING 18, 4 (2018) 1288-1299.
4. S. Lesz</b, M. Kremzer, K. Gołombek, R. Nowosielski: Inluence of milling time on amorphization of Mg-Zn-Ca powders synthesized by mechanical alloying technique, ARCHIVES OF METALLURGY AND MATERIALS, 63, 2 (2018) 839-845.
5. S. Lesz</b: Effect of cooling rates on the structure, density and micro-indentation behavior of the Fe, Cobased bulk metallic glass, MATERIALS CHARACTERIZATION 124 (2017) 97-106.
6. S. Lesz</b: A study of structure and magnetic properties of low purity Fe-Co-based metallic glasses, MATERIALS 10, 6 (2017) Article Number: 625.</td></tr>
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	7. **S. Lesz**, G. Dercz: Study on crystallization phenomenon and thermal stability of binary Ni-Nb amorphous alloy, JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY 126, 1 (2016) 19-26. 8. **S. Lesz**, S.Griner, R. Nowosielski: Deformation mechanism and fracture of Ni-based metallic glasses, ARCHIVES OF METALLURGY AND MATERIALS 61, 2 (2016) 791-795. 9. **S. Lesz**, P. Kwapulinski, M. Nabialek, P. Zackiewicz, L. Hawelek: Thermal stability, crystallization and magnetic properties of Fe-Co-based metallic glasses, JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY 125, 3 (2016) 1143-1149. 10. **S. Lesz**, A. Januszka, S. Griner, R. Nowosielski: Crack initiation and fracture features of Fe–Co–B–Si–Nb bulk metallic glass during compression, Frattura ed Integrità Strutturale, (Fracture and Structural Integrity) Frattura ed Integrità Strutturale, 35 (2016) 206-212; DOI: 10.3221/IGF-ESIS.35.24 Guest Editor of the Magnetochemistry Special Issue "Advances in Amorphous and Nanocrystalline Magnetic Materials"
Research Projects*	1. National Science Centre project no. 2017/27/B/ST8/02927 (10/010/PBU18/0254), The Mg-based biodegradable materials, doped with precious metals and rare earth elements for medical applications, prepared by the powder metallurgy method, project manager, 20.09.2018-19.09.2021. 2. National Science Centre project no. 2013/09/B/ST8/02129 (PBU-8/RMT1/2014) titled: "New crystalline and amorphous alloys of magnesium and calcium with the optimal chemical composition, strength and corrosion resistance due to the biomedical criteria", Gliwice 2013-2017, contractor. 3. UDA-POWR.03.01.00-00-T005/17-00 Knowledge Education Development, Programme co-financed by the European Union in the Priority axes: Higher education for economy and development: "The Devolepment of Students'Competence in response to the needs of the automotive industry", realized in Faculty of Mechanical Engineering from 1.01.2018 to 31.10.2020, expert and teacher.
Professional Membership	Member of the Expert Teams of The National Science Centre in Poland Member of Scientific committee of ESIS TC03 (Technical Committee No.03: Fatigue of Engineering Materials and Structures)
Potential Research Projects**	Mechanical alloying and sintering of Mg-based alloy, Amorphous and nanostructured materials - fabrication and investigation, Biodegradable materials, Steels, Soft magnetic materials, Heat treatment

* 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