

Betül Aksoy

Date of birth: 02/06/1999 | **Nationality:** Turkish | **Phone:** (+90) 5078444924 (Mobile) | **Email address:** betulaksoy123@gmail.com | **Address:** Erzene, 75th st. , 33/13, İzmir, Türkiye (Home)

● WORK EXPERIENCE

18/07/2022 - 18/06/2023 - İZMİR, TÜRKİYE

INTERN RESEARCHER EGE UNIVERSITY SOLAR ENERGY INSTITUTE

I took part as a researcher in the project titled "recycling of crystalline silicon photovoltaic panels" within the scope of the intern researcher scholarship program supported by the Scientific and Technological Research Council of Turkey. During the process, I took part in research and development studies. I completed my undergraduate thesis on delamination of photovoltaic panels to support the project topic.

Skills: PV panel recycling & delamination, R&D in material recovery processes, Sample preparation for analysis (XRD, XRF, FTIR, DSC etc.)

20/06/2024 - 20/09/2024 - ATHENS, GREECE

INTERN RESEARCHER MONOLITHOS CATALYSTS

I participated in the EIT RawMaterials-funded RIS Internship programme, where I worked on the valorization of critical raw materials recovered from end-of-life catalytic converters. My responsibilities included analyzing recovery processes, evaluating the efficiency of material extraction techniques, and exploring sustainable methods for maximizing the reuse of critical raw materials.

Skills: Hydrometallurgy, Critical raw material recovery, Sample preparation for analysis (XRF, ICP-OES)

● EDUCATION & TRAINING

02/09/2018 - 03/07/2023 - İZMİR, TÜRKİYE

MECHANICAL ENGINEER- EGE UNIVERSITY

Website: <https://ege.edu.tr/tr-0/anasayfa.html>

28/09/2023 - 06/01/2026 - İZMİR, TÜRKİYE

MSC- EGE UNIVERSITY SOLAR ENERGY INSTITUTE

Thesis: Investigation of the cooling effect of phase change material integrated photovoltaic systems | **Website:** <https://eusolar.ege.edu.tr/>

02/02/2026 - Current - İZMİR, TÜRKİYE

PHD- EGE UNIVERSITY SOLAR ENERGY INSTITUTE

Field(s) of study: Inter-disciplinary programmes and qualifications involving engineering, manufacturing and construction

● LANGUAGE SKILLS

Mother tongue(s): **TURKISH**

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken production	Spoken interaction	

ENGLISH	B2	B2	B1	B1	B1
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● **SKILLS**

Solidworks, Autodesk Inventor & AutoCad | Basic knowledge of Ansys simulations | FEM calculation model and stress analysis: ANSYS (Workbench/Fluent) | Microsoft Office

● **CERTIFICATES**

28/07/2025 - CURRENT

ISO Certificates

- ISO 9001 (ID: UN_041070231833819642154)
- ISO 14001 (ID: UN_041070231833819642040)
- ISO 19011 (ID: UN_041070231833819642153)
- ISO 45001 (ID: UN_041070231833819642860)

● **PROJECTS**

01/11/2023 - 15/03/2025

Recycling of Crystalline Silicon Photovoltaic Panels via Life Cycle Analysis

22/02/2026 - CURRENT

PhD Research Scholar Currently serving as a **PhD Research Scholar** for the project '**Upcycling Photovoltaic Panel Waste into High-Performance Energy Storage Materials within the Scope of Circular Economy.**' I am responsible for leading the experimental processes, focusing on the recovery of silicon from end-of-life PV panels and its transformation into advanced materials for energy storage systems.