



AFYON
KOCATEPE
ÜNİVERSİTESİ



MATERIALS SCIENCE AND ENGINEERING DEPARTMENT

Advancing Science, Enabling Innovation.

ABOUT OUR DEPARTMENT

Our department began its educational activities under the name of Ceramic Engineering in the 1995–1996 academic year. In line with advancing technologies and interdisciplinary approaches, it was renamed Materials Science and Engineering in the 2005–2006 academic year. The department graduated its first students in the 2007–2008 academic year and currently continues its educational and research activities with 3 Professors, 4 Associate Professors, 1 Assistant Professor, and 1 Research Assistant (PhD). Practical courses and R&D activities are conducted in laboratories dedicated to Ceramics, Metals, Polymers, Composites, Electroceramics, Glass, Battery Technologies, and Heat Treatment, as well as within the Technology Application and Research Center. Additionally, through the Engineering Design and Engineering Practice (Graduation Thesis) courses in the 7th and 8th semesters and industrial internships, our students gain the opportunity to enhance their hands-on engineering skills.

A **Materials Scientist and Engineer** is a qualified engineering professional who designs, produces, and develops ceramic, metal, and polymer-based materials—as well as composite systems formed by combining these—using natural or synthetic raw materials of organic or inorganic origin, and brings these materials into service for the benefit of humanity.



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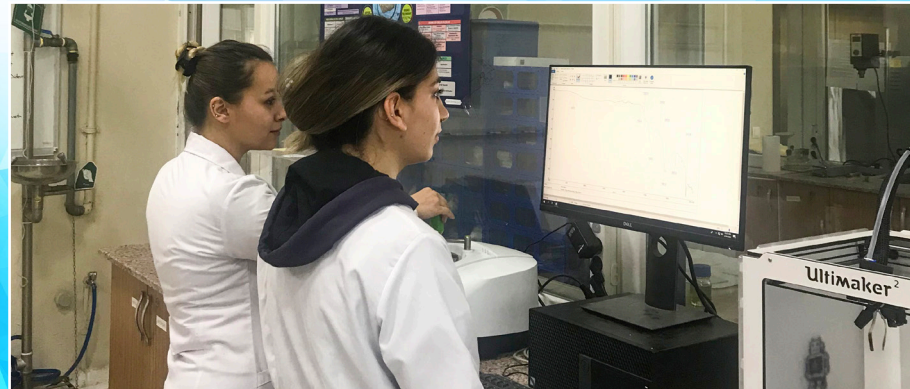
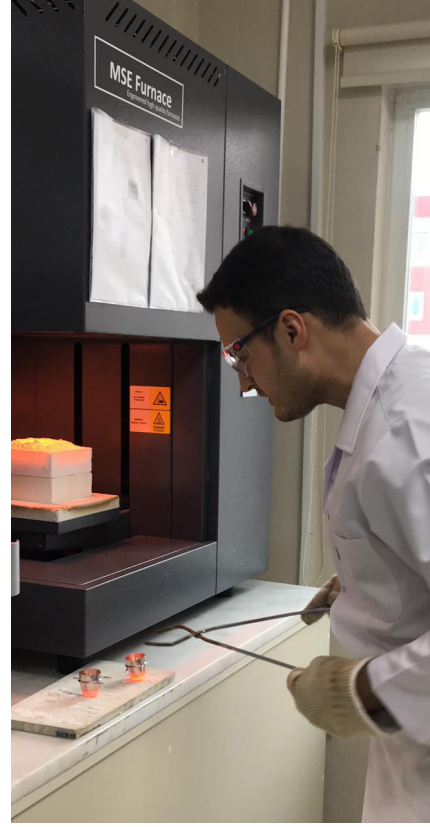


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In our department, a wide range of research activities are carried out within the scope of projects in which our students also take an active role. These include enhancing the properties of polymer composites, developing radiation-shielding glass materials, piezoelectric ceramics, advanced technology ceramics, amorphous and nano-composite metallic alloys, metallic glasses, cement and concrete technologies, nanomaterials, and the recycling and valorization of industrial waste. These projects are supported by institutions such as our university's Scientific Research Projects Coordination Unit (BAP) and TÜBİTAK (The Scientific and Technological Research Council of Türkiye). In addition, our students benefit from study and internship mobility opportunities through bilateral agreements with numerous European universities within the scope of the ERASMUS program. They also have the chance to study at different universities in Türkiye and abroad through the Farabi and Mevlana exchange programs.

EMPLOYMENT OPPORTUNITIES OF OUR GRADUATES

Materials Science and Engineering graduates have employment opportunities in a wide range of public institutions and private sector organizations. These include universities, research centers, R&D laboratories, quality management systems, as well as industries such as automotive, defense and aerospace, iron and steel, foundries, metal forming facilities, electrical-electronics, glass manufacturing plants, ceramic factories, polymer industry, cement and concrete production, refractory materials, brick and tile manufacturing, biomedical applications, and nanotechnology-based fields.



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