INVOLVED SCHOOLS:
School of Electrical and Computer Engineering
School of Medicine
School of Chemical Engineering
School of Mechanical Engineering
School of Biology

ANNOUNCEMENT

ENROLLMENT IN THE INTERDEPARTMENTAL PROGRAM OF POSTGRADUATE STUDIES «BIO-MEDICAL ENGINEERING»

FOR THE ACADEMIC YEAR 2024-25

The Program Committee of the Interdepartmental Program of Postgraduate Studies "Biomedical Engineering" at its meeting numbered 7/25-4-2024, decided to announce the enrollment of up to **forty (40)** positions for Postgraduate students who wants to participate in the **academic year 2024-2025** in the Interdepartmental Program of Postgraduate Studies titled "Biomedical Engineering" (BME-AUTh). The Interdepartmental Program was established on August 17, 2021, according to Government Gazette, Issue 2, 3807.

The purpose of the Postgraduate Program

The purpose of the MSc Program is to provide specialized knowledge in the utilization and development of advanced applications of Biomedical Engineering technologies in healthcare systems for prevention, diagnosis, treatment, and rehabilitation. The aim is to select excellent graduates from relevant Schools/Departments both domestically and internationally and train them in Biomedical Engineering to create a workforce with high theoretical training and technical expertise that will meet the demands imposed by the rapidly evolving technological advancements in the field. Graduates of the MSc Program will be able to successfully address the need for specialized scientific personnel in the biomedical technology sector and secure positions in both the private and public sectors as well as in Research and Higher Education Institutions.

The development of biomedical systems and applications and their evolution requires collaboration among scientists with a broad spectrum of knowledge and understanding of the Fundamental Sciences of Medicine, Biology, Engineering, and Informatics. This multidisciplinary co-existence of scientists will allow for the expansion and enrichment of integrated technical approaches for the development of high-level healthcare technologies and the advancement of the

healthcare systems industry, contributing to the enhancement of the healthcare system in our country and globally.

The aforementioned Program aspires to offer a broad and comprehensive interdisciplinary approach to the broader field of health sciences, engineering, and informatics through a deep understanding of the individual principles and an in-depth exploration of the intersection points of these sciences with interconnection and synergy.

Description of the Postgraduate Program

The duration of the Postgraduate Program is set at three (3) academic semesters. The student is required to attend the courses of the 1st and 2nd semesters, equivalent to 60 credit units (ECTS), and in the 3rd semester, to complete a master's thesis corresponding to 30 ECTS. Students have the option, in the 2nd semester, to undertake an extensive research-oriented master's thesis. In this case, the student is only required to attend the mandatory courses of the 1st and 2nd semesters, corresponding to 40 ECTS. In the 2nd semester, in agreement with the supervisor of the program, the student works on a part of the research master's thesis (Part A) corresponding to 20 ECTS, instead of equivalent ECTS courses, and the research master's thesis continues and is completed in the 3rd semester (Part B, 30 ECTS).

Attendance is in person mandatory for all courses, lectures, seminars, laboratories, and other activities.

The official language of the Program is English, and therefore all activities are conducted in English, including lectures, seminars, laboratories, assignment writing, thesis writing, and written examinations.

Categories of Candidates

The Postgraduate Program accepts:

- Graduates of University Departments/Schools and Diploma Engineers of Polytechnic Schools and Polytechnic Departments of the country or equivalent recognized institutions abroad with degrees and diplomas relevant to the specialization fields of the Postgraduate Program.

Tuition Fees

The tuition fee for citizens of the European Union is 750€ (euros) per semester, and for citizens of countries outside the European Union, it is 1500€ (euros) per semester. The full amount for each semester is payable at the beginning of each semester to the Special Research Funds Account (ELKE) of the Aristotle University of Thessaloniki.

Submission Documents

Prospective postgraduate students must submit the following documents on time:

- Application, which can be downloaded from the website of the Postgraduate Program http://bme.web.auth.gr

- Identity card or passport

- Curriculum vitae

- Bachelor's and, if available, master's degrees/diplomas

- Recognition of foreign qualifications for admission to a postgraduate program is done by the Academic Schools. If the first cycle of studies has been completed abroad, the candidate is not required to provide the equivalence of qualifications from the Hellenic National Recognition and Information Center (Hellenic N.A.R.I.C. / Δ.Ο.Α.Τ.Α.Π.). Even if they provide equivalence, recognition is still done by the School.

- Transcript of undergraduate and/or postgraduate studies or submission of the Diploma Supplement accompanying each degree

- Two (2) recommendation letters. The letters can be included in the documents submitted by the candidate or sent directly by the signatories to the email address bme@auth.gr. The letter must be written in English or Greek.

- English Certificate, at least level B2 (not applied to native English speakers)

- Personal statement of the candidate explaining their background, interest in scientific topics of the Postgraduate Program, expectations from the Program, as well as any professional relevance

- Work experience certificates, if any

- Other documents that the candidate deems necessary to be considered in the evaluation

English language proficiency can be demonstrated by any of the following certificates:

(a) State certificate of language proficiency of equivalent level according to law 2740/1999, as replaced by paragraph 19 of article 13 of law 3149/2003

(b) CERTIFICATE OF PROFICIENCY IN ENGLISH (CPE) from the CAMBRIDGE or MICHIGAN Universities

(c) INTERNATIONAL ENGLISH LANGUAGE TESTING SYSTEM (IELTS) from the University of Cambridge Local Examinations Syndicate (UCLES)

(d) TOEFL

(e) The British Council – IDP Education Australia IELTS Australia with a score of 6.5 and above

(f) Any other way of proving language proficiency as specified by law (undergraduate or postgraduate studies in English-speaking universities, citizens of countries where English is spoken, etc.)

Candidates for participation in the selection process are required to submit the documents in electronic files in a known file format, such as jpeg and pdf.

Candidates who have not yet received their degree/diploma have the right to submit their documents and to provide a certificate from the Secretariat certifying the number of courses or other obligations (e.g., bachelor's/master's thesis) and their current grade point average.

Criteria and Selection Process

The evaluation of applications and the ranking of candidates are conducted by at least three members of the Program Study Committee of the Postgraduate Program, which also serves as the admissions committee.

The assessment of all candidates occurs in two phases. In the first phase, the evaluation of all candidates is based on the following criteria:

- Overall grade of the bachelor's degree/diploma
- Performance of the candidate in undergraduate courses relevant to the Postgraduate Program
- Performance of the candidate in their thesis
- Any relevant professional or research activity related to the subjects of the Postgraduate Program
- Possession of other degrees or postgraduate qualifications relevant to the subjects of the Postgraduate Program
- Publications in scientific journals and conference proceedings

In the second phase, the assessment of all candidates is based on the results of interviews conducted by the admissions committee.

For the quantitative evaluation of the criteria, a scoring system is applied to each criterion as follows:

Degree/Diploma points: Calculated using the formula "*coefficient* * (degree/diploma grade)".

The *coefficient* is: a) 1.6, b) 1.8, and c) 2.0 if the degree/diploma is respectively from:

a) School/Departments of former TEI (Technological Educational Institute) and Universities with a duration of less than four years,

b) University School/Departments with a duration of four years, and

c) University School/Departments with a duration of five or six years.

Thesis points: The grade of the thesis, if it is deemed relevant to the subject of the postgraduate program.

Relevance of undergraduate degree/diploma points: The relevance of the undergraduate degree/diploma to the subject area receives a maximum of 10 points.

Relevance of postgraduate degree points: Possession of another relevant postgraduate degree receives 10 points.

Points for relevant publications: Publications relevant to the subject area receive a maximum of 15 points.

Points for relevant research and/or professional experience: Up to 10 points.

Recommendation letter points: Up to 5 points.

Interview: The interview is conducted by the Admission Committee of the Postgraduate Program. Its purpose is to assess candidates' academic knowledge required for attending the program and to evaluate their abilities in areas such as reading and comprehension, analytical skills, reasons for choosing the specific postgraduate program, etc. The interview may also refer to the personal statement submitted by the candidate.

Submission of Documents

The application along with the necessary supporting documents (in jpeg or pdf) can be submitted electronically to the email address: bme@auth.gr.

Deadline for Document Submission

Applications with attached documents for candidates wishing to enroll in the program for the academic year 2024-2025 will be accepted **until July 31, 2024**.

Thessaloniki, 10/5/2024