

7	2	0	3	M	G	0	0
---	---	---	---	---	---	---	---

Admission Number

Master of Science Programme in Molecular Genetics and Genetic Engineering (International Programme)

หลักสูตร วิทยาศาสตร์มหาบัณฑิต

สาขาวิชา พันธุศาสตร์ระดับโมเลกุลและพันธุวิศวกรรมศาสตร์

(หลักสูตรนานาชาติ) (ภาคปกติ)

Institute of Molecular Biosciences

สถาบันชีววิทยาศาสตร์โมเลกุล

Expected number of Students to be accepted year round : 5 Students

Admission Requirements

A candidate must:

1. hold a Bachelor's (B.Sc.) of Science degree the following fields: Chemistry, Biochemistry, Biological, Microbiology, Biotechnology, Genetics, Medical Technology, Pharmacy, Veterinary, Medicine, or other related field
2. have a grade point average of at least 3.00;
3. have a TOEFL score of at least 480, TOEFL computer-based score of 157, TOEFL Internet-based score of 54, or IELTS score of 4.5 or pass the English Proficiency Examination arranged by the Faculty of Graduate Studies. For those who already hold a valid English score, please submit its certificate along with all application documents.

Curriculum Structure

	Credit
Required Courses	15
Elective Courses	9
Thesis	12

	Credit
Required Courses	
MBMG 501 Genetic Engineering	3(3-0-6)
MBMG 502 Molecular Genetics	3(3-0-6)
MBMG 511 Techniques in Molecular Genetics and Genetic Engineering	3(0-9-3)
MBMG 521 Molecular Genetics and Genetic Engineering Seminar I	1(1-0-2)
MBMG 522 Molecular Genetics and Genetic Engineering Seminar II	1(1-0-2)
MBMG 602 Computer Applications in Molecular Biology	2(1-2-3)
MBMG 603 Instrumentation in Molecular Biology	2(2-0-4)
Elective Courses	
MBMG 601 Current Topics in Molecular Biology	1(1-0-2)
MBMG 606 Protein Structures	2(2-0-4)
MBMG 613 Advanced Research Project in Molecular Genetics and	3(0-9-3)

	Genetic Engineering		
SCID	500	Cell and Molecular Biology	3(3-0-6)
SCID	506	Concept of Molecular Bioscience	2(2-0-4)
Thesis			
MBMG	698	Thesis	12(0-36-0)
* These May Change in Cases Where There are Suggestions for The Improvement of The Curriculum			

Additional advantages of the programme

Our programme is one of the leading programmes in Molecular Genetics and Genetic Engineering in Thailand. The programme provides research opportunities in several areas of current interest, and is among the most productive programme in terms of research output. We also have efficient evaluation process to ensure minimum period of study in our programme.

Details of Scholarships

1. Scholarship of the 60th Year of the Supreme Reign of His Majesty King Bhumibol Adulyadej.
2. MGGE Scholarships.

Application Process

Application is only available via online application at www.grad.mahidol.ac.th.

Required Documents

Prepare the following required documents to submit via online admission system or post :

- Two (2) recent photographs (1x1 inch in size)
- A copy of an applicant's degree certificate or a letter of graduation certification (for an applicant with a degree completion) 2 copies
- A letter certifying that an applicant is currently in the final year prior to graduation (for an applicant seeking for a degree) 2 copies
- A detailed transcript of a degree (for an applicant with a degree completion) 2 copies
- A grade report with course names and grades received from the first to the current semester prior to graduation 2 copies
- A copy of identification card 2 copies
- A copy of house registration certification 2 copies
- A copy of Certificate of English score: TOEFL/IELTS/MU-Test (if any). See detail here: 2 copies
http://www.grad.mahidol.ac.th/grad/academicinfo/engstandard2553_th.php
- A copy of proof of payment.

Submitting documents via online admission system.

- All documents must be in pdf format (maximum size 2 MB)
- Recent photograph must be in jpeg format only (maximum size 2 MB)

Job option after graduation

Researcher with expertise in Molecular Genetics and Genetic Engineering.

Further information may be obtained from the Director of Graduate Studies, Molecular Genetics and Genetic Engineering:

1. **Asst. Prof. Dr. Panadda Boonserm** (E-mail : panadda.boo@mahidol.ac.th)
Institute of Molecular Biosciences Building, floor 4,
Institute of Molecular Biosciences, Mahidol University, Salaya, Nakhonpathom.
Tel: 0 2441 9003-7 Ext. 1459 Fax: 0 2441 9906

2. **Assoc. Prof. Dr. Apinunt Udomkit (E-mail : apinunt.udo@mahidol.ac.th)**
Institute of Molecular Biosciences Building, floor 2,
Institute of Molecular Biosciences, Mahidol University, Salaya, Nakhonpathom.
Tel: 0 2441 9003-7 Ext. 1236 Fax: 0 2441 9906

Program Coordinator

Mrs. Arpa Eamkum (E-mail : arpa.eam@mahidol.ac.th)
Institute of Molecular Biosciences Building, floor 3,
Institute of Molecular Biosciences, Mahidol University, Salaya, Nakhonpathom.
Tel: 0 2441 9003-7 Ext. 1328 Fax: 0 2441 9906

- Notes**
1. The programme of Molecular Genetics and Genetic Engineering requires students to study the pre - requisite course:
 - SCID 500 Cell and Molecular Biology 3 Credits
 - SCID 506 Concept of Molecular Bioscience 3 Credits
 2. For more education information : www.grad.mahidol.ac.th

**For more information please contact The Student Admission Section.
Tel . 0 2441 4125 ext. 208-210 , 0 2441 9129, E-mail : gradthai@mahidol.ac.th**