

**Application form for the Master of Science study program
Biochemistry and Molecular Medicine at the University of Cologne**

(Applicants with non-German bachelor degree)

Please fill in electronically

Personal data (family name, first name):

Nationality:

Non-German university bachelor degree or alternative qualification

Name of bachelor study program:

Degree obtained:

University, city, country:

Title of bachelor thesis:

Supervisor of bachelor thesis (title, family name, first name, university/institution, city)

Date of certificate

Overall final grade

Does your study program have an ECTS grading

yes

no

Total number of credit points which can be achieved in your bachelor study program

Duration of semester (in weeks)

Normal study program length (in semesters)

Proof of proficiency in English

native speaker

language of instruction in bachelor program (provide proof)

Proficiency certified with

TOEFL

IELTS

TOEIC

Cambridge English
Qualifications

**Total Score
reached**

Required 36 credit points (of 180) in biochemical modules including practical content during your bachelor study program

Please fill in module titles and corresponding credit points you achieved in biochemical modules (please add description or protocol, if possible) or in your bachelor thesis if your thesis has a biochemical focus. Also add internships in biochemical research laboratories when applicable. **Subject areas which can be credited are modules in biochemistry, molecular medicine or cell biology which mainly contained experimental laboratory work. Please note that modules or courses in areas like organic/inorganic/physical/pharmaceutical chemistry, physiology, genetics, bionanotechnology or bioinformatics do not count as biochemical subject areas**

Title of the module	Kind of course*	Expenditure of time**	Credits achieved
Total amount of credits			

* e.g. lecture, practical course, laboratory class, tutorial, thesis

** e.g. 2 hours/week for 1 semester, 5 weeks block

Experimental prerequisites – Self evaluation

Please critically self-assess your level of experimental expertise. You will not be able to work and study properly in this Master program if you have significant deficits in practical experience with biochemical laboratory techniques. Please list below your experience in areas A-C including the techniques you performed and the time you spent on them.

(A) Molecular biology techniques, DNA cloning and manipulation (PCR restriction digest, agarosegel electrophoresis, ligation, concentration determination etc.)

(B) Protein purification and characterization (SDS-PAGE, concentration determination, Westernblotting, column chromatography of various kinds)

(C) Enzyme kinetics and characterization (evaluation of kinetic data)

Self evaluation

Motivation statement

Explaining (a) why you would like to join this particular M.Sc. program and (b) what are your specific skills that qualify you for this program (250 words).