Technische Universität Dresden
Center for Molecular and Cellular Bioengineering (CMCB)

Regulation for the Admission to the Master's program of Physics of Life at the Technische Universität Dresden

(Regulations governing admission criteria and procedure)

7 April 2022

Pursuant to § 13 par. 4 and §17 par. 10 of the *Gesetz über die Freiheit der Hochschulen im Freistaat Sachsen (Sächsisches Hochschulfreiheitsgesetz – SächsHSFG)* (Law on Institutions of Higher Education in the Free State of Saxony) of January 15, 2013 (SächsGVBI. P.3), changed with article 5 of the Law from December 17, 2020 (SächsGVBL. P. 731), the Technische Universität Dresden enacts the regulations below as statutes.

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§ 1
Scope

Based on the Saxon Law on Institutions of Higher Education in the Free State of Saxony, these regulations govern the admission criteria and procedure of the Master's program Physics of Life at the Technische Universität Dresden.

§ 2
Admission Criteria

(1) Pursuant to §3 of the valid version of the study regulations for the Master's program Physics of Life, admission is granted for each applicant who fulfils the required admission criteria (qualifications).

(2) To be qualified and, thus, eligible for admission in terms of par. 1, a candidate shall

a. furnish evidence of a first university degree or degree of a state or state-approved university of cooperative education in science (typically a Bachelor's degree in physics or biophysics) or engineering (typically Nanotechnology) or or in a closely related degree program, in particular advanced mathematics.

b. have knowledge of English at the advanced B2 level of the Common European Framework of Reference for Language.

c. furnish evidence of his qualification for the Master's program Physics of Life pursuant to § 5.

§ 3
Admission Committee

According to the regulations at hand, an Admission Committee, which is assigned by the Director of CMCB for the respective period upon proposal by the study committee, is responsible for the assessment of aptitude of the applicants. Principally, the Admission Committee is composed of three professors, one of them being as a rule member of the Faculty of Physics. A university teacher of the cooperating university Katholieke Universiteit Leuven can be involved in the selection process. The Admission Committee takes decisions as an authority of appeal (Widerspruchsbehörde) regarding objections against its decisions in the context of the admission procedure and issues the notices of objection. In addition the Admission Committee is responsible for the set-up and publication of the application form pursuant to §4 par. 2 no. 1

§ 4
Application and Deadlines

(1) For registration, the application form as well as all documents listed in par. 2 have to be submitted together with all application documents.

1. Applicants with a university degree from a German Institution of Higher Education (Masterzugangsberechtigung) have to apply to:

   a) for German citizens or non-German citizens with a secondary school diploma from Germany:
   Technische Universität Dresden
   Center for Molecular and Cellular Bioengineering (CMCB)
   Master Course Physics of Life
   Tatzberg 47-49
   01307 Dresden
   Germany

   b) for non-German citizens and with a secondary school diploma from abroad:
   Technische Universität Dresden
   Akademisches Auslandsamt
   01062 Dresden
   Germany

2. Applicants with a university degree from an Institution of Higher Education from abroad (Masterzugangsberechtigung) have to apply via uni-assist e.V.

3. Applicants have to apply from 1 April to 31 May for a selection and admission in the winter term of the same year.

4. The applicants need to enclose the following documents for decision on their qualification for the program:

1. Application form of the master's program Physics of Life,
2. photocopy of the first university degree certificate(s) in German or as well as a certified translation of the applicant's university degree certificate(s) in German or English, if applicable;
3. photocopies of additional certificates and proofs in German or English attesting to the qualifications specified in § 5 par.1;
4. photocopy of the certificate demonstrating the student's proficiency in English pursuant to § 2 par. 2 lit.2
   The proficiency is shown with a relevant degree or language certificate. It can be:
   a) Diploma of the secondary school with an advanced English course,
   b) Diploma of the secondary school fully completed in English,
   c) Diploma of a university-degree fully completed in English or
   d) English certificate like TOEFL IBT (min. 92), IELTS (min. 6.5) and comparable certificates. Applicants whose mother tongue is English are exempt from this obligation to provide proof.

5. two letters of recommendation, preferably issued by university teachers, in German or English,
6. photocopies of other certificates proving e.g. supplementary qualifications, extra-curricular achievements and activities and professional experience which will give information on the student's special aptitude pursuant to § 2 par. 2 lit. 3 and § 5 par. 1.

(3) Applications which are incomplete or do not arrive in due form and time are excluded from the succeeding procedure.

(4) Unless the university degree has been completed by the time of application pursuant to par. 2 lit. 2, the application is still considered on condition that 80 per cent of the credit points, which are necessary for the completion of the course, have been acquired. The applicant needs to provide evidence of this issued by his university through a certificate. The necessity of providing all other aforementioned documents, pursuant to par. 2 and 3, remains unaffected by this fact.

§ 5
Proof and Assessment of Aptitude

(1) The applicant’s aptitude for the Master’s program Physics of Life pursuant to § 2 par.2 lit.3 is proven by sound knowledge of the fundamentals of classical physics with mechanics, electrodynamics, optics and thermodynamics and quantum theory including sound knowledge of higher mathematics as well as basic knowledge of biology and chemistry.

(2) Whether the proof of aptitude is sufficient or not, is examined by the Admission Committee on the basis of the documents submitted, in particular those documents pursuant to § 4 par. 2 lit. 3, 5 and 6 but only if the requirements pursuant to § 2 par. 2 lit.1 and 2 are fulfilled. In case the documents do not already attest to the aptitude of the applicant, the Admission Committee will invite the applicant to an admission interview pursuant to §6.

§ 6
Admission Interview

(1) Goal of the admission interview is to check whether the applicant holds the necessary knowledge, skills and qualifications pursuant to §5 par. 1

(2) The interview follows a thematically standardised structure and should not exceed 20 minutes.

(3) The applicant will receive a written invitation for the interview from the Admission Committee pursuant to § 3 in due time, at least 2 weeks before the date of the interview

(4) Minutes will be taken by a member of the Admission Committee. They will include information on the content of the interview, the participants as well as the exact duration of the interview.

(5) Should the applicant not appear for the interview, he cannot claim an alternative date. If the applicant has appeared for the admission interview and has not been able to prove his aptitude pursuant to § 2 par. 2 lit. 3, the admission interview may be repeated once in the subsequent year at the applicant's request. The application for it should be lodged in due time pursuant to § 4 par. 1. § 4 par. 2 is not applicable in these cases

(6) If the student furnishes prima facie evidence that he is unable to attend the admission interview in the foreseen format due to prolonged or permanent physical disability/sickness, the Admission Committee can permit him to prove his aptitude in an alternative form. Submission of a medical certificate and, in cases of doubt, an official medical certificate, is generally required

(7) Should an international applicant not be able to attend the admission interview, the Admission Committee can permit him to prove his aptitude in an alternative form.

§ 7
Notice of Aptitude

(1) If the applicant has proven his aptitude pursuant to § 2, the Admission Committee sends him an aptitude notice for the respective academic year. The aptitude notice serves as a document to be presented at the Immatrikulationsamt/ Akademisches Auslandsamt (registration office/international office) of the TU Dresden and constitutes the required proof of eligibility of admission to the master program. It is a prerequisite for the admission to and matriculation in the Master's program in Physics of Life.

(2) If a candidate cannot prove his aptitude pursuant to § 2, the Admission Committee will also issue a written notice which is complemented by information on the legal remedies available

(3) If the candidate cannot prove the successful completion of the required first university degree pursuant to §2 par. 2 lit 1 by the end of the enrolment period stipulated by the Immatrikulationsamt/Akademischen Auslandsamt, he will be enrolled only for a limited period. The limit is set by the Immatrikulationsamt/ Akademischen Auslandsamt, which is generally one semester

§ 8
Entry into Force and Publication

These regulations shall enter into force one day after their publication in the *Amtliche Bekanntmachungen (*Official Publications) of the Technische Universität Dresden. The Regulations for the admission to the master's program Nanobiophysics dated April 16,

2007 (AB of TU Dresden Nr. 06/2007 of June 25, 2007, p. 37) that was amended by the statutes of May 29, 2011 (AB of TU Dresden Nr.03/2011 of June 09, 2011, p. 20) herewith expires.

Issued according to the decision of the Scientific Board of the Center for Molecular and Cellular Bioengineering of Technische Universität Dresden of March 16, 2022 and the approval by the Rectorate of April 5, 2022.

Dresden, 07.04.2022

The Rector
of the Technische Universität Dresden

Prof. Dr. Ursula M. Staudinger