

ORDER AND CONDITIONS OF OPEN COMPETITION TO DOCTORAL STUDIES IN BIOCHEMISTRY SCIENCE FIELD IN 2017

1. GENERAL PROVISIONS

| Code of field of science | Field of Science |
|--------------------------|------------------|
| 04P | Biochemistry |

1.1. Applicants to doctoral studies in Biochemistry science field are admitted through an open competition according to the chosen dissertation topic separately to each doctoral institution that has been granted the joint right of doctoral studies. Applicants can apply to no more than two different dissertation topics.

1.2. The competition is organized by the Doctoral School of Vytautas Magnus University, the competition is conducted by the Doctoral Committee of Biochemistry Science Field (hereinafter – Committee).

2. QUALIFICATION REQUIREMENTS

- 2.1. Master's degree or higher education degree equal to it.
- 2.2. Knowledge of foreign languages.

3. REQUIRED DOCUMENTS

- Application for admission addressed to the Rector
- Diploma of Master's degree or qualification adequate to it, its annex/supplement (originals are returned straightaway)
- Letters of recommendation by two scholars (one recommendation of the scientist of the Biochemistry science field)
- Curriculum Vitae (signed by applicant)
- List of applicant's scientific publications (submitted in full bibliographic description) and their copies (submitted together with a copy of journal's cover and contents page); or, if a scientific article in not yet published – a document issued by the editorial board of a scientific journal certifying the acceptance of an article for publication (after the reviewing procedure) and its manuscript
- Project of scientific research: paper copy and digital copy in .doc or .docx format (digital media not returned); if two topics are indicated in the application, then 2 scientific research projects need to be submitted
- Personal identification document
- One photo (3 cm x 4 cm)
- Documents notifying the change of surname if not all documents are submitted under the same surname
- Other documents which an applicant wishes to submit

4. SELECTION CRITERIA

- 4.1. **Scientific publications (SP).** Applicant's scientific publications are evaluated by points according to the methodology approved by the order of Minister of Science and Education. Points for scientific publications are allocated and the sum of points is converted to a ten point system in the way described in Annex 1.
- 4.2. **Scientific research project (RP).** The scientific research project is prepared according to the requirements set by Committee (Annex 2). The project is marked by two evaluators appointed by Committee. Its final mark consists of the average of marks given by the two evaluators in a ten-point grading system.
- 4.3. **Grade point average (GPA)** of the marks of study courses and thesis in annex/supplement to Master's diploma or other diploma confirming the reward of corresponding qualification.
- 4.4. **Motivational interview (MI).** During the motivational interview the applicant's motivation to study in the doctoral programme is assessed as well as the adequacy of scientific publications, scientific research and other activity to the chosen topic, recommendations of scientists, knowledge of foreign languages, etc. The final point* of the motivational interview is generated by the average of Committee member marks in a ten-point grading system. The candidates to doctoral studies must collect no less than 7 points from the motivational interview.

5. STRUCTURE OF COMPETITIVE SCORE (CS)

- 5.1. Competitive score (CS) is estimated according to the formula:
CS = 02*SP + 0,25*RP + 0,25*GPA + 0,3*MI, where:
SP – is the point calculated in a ten-point grading system for scientific publications,
RP – is the final point of assessment for scientific research project,
GPA – is the grade point average of the marks in the annex/supplement to Master's degree or other diploma certifying the reward of the corresponding qualification,
MI – is the final score obtained for the motivational interview.
- 5.2. In case of equal scores, an applicant with a higher evaluation of scientific publications shall be given a priority.

* Points are rounded to the nearest hundredths.

6. ADMISSION PROCEDURE

- 6.1. Applicants are required to submit an application form to take part in the competition addressed to the Rector of the institution to which they are applying. This request can be submitted to the Doctoral School/Office of Science of each doctorate institution having the right to organize such studies. Together with the application, all document specified in Section 3 need to be submitted. Only those who submit all required documents can take part in the competition.
- 6.2. All applicants are required to take part in a motivational interview with the Committee members.
- 6.3. The Committee generates a competitive score according to the selection criteria and makes priority lists of applicants for each partner institution's dissertation topics.
- 6.4. In three days after the announcement of competition results, applicants can submit a motivated appeal to the Committee, and upon receiving a negative response, in three days, can appeal to the head of the doctoral institution, to which doctoral studies they applied.

- 6.5. After the final list of invited candidates is announced, applicants who were not accepted into state-funded study places, but who meet the requirements for doctoral studies, can choose fee-paying doctoral study places and study paying a tuition fee set by a doctoral institution.
- 6.6. Candidates invited to doctoral studies sign a bilateral contract with the doctoral institution, and the Rector's order is issued on their acceptance to doctoral studies.
- 6.7. If, after the admission process is over, there are free study places left, a second round of admission can be organized, which is carried out following the same procedure.

| Admission procedures | Dates and deadlines |
|--|----------------------------|
| Submission and registration of documents | 2017 07 03 – 2017 08 25 |
| Doctoral Committee Meeting (motivational interview with applicants) | 2017 09 04 – 2017 09 08 |
| Doctoral Committee Meeting (calculation of the competition results) | 2017 09 04 – 2017 09 08 |
| Notification of applicants about the competition results | 2017 09 12 |
| Submission of motivated appeals to Doctoral Committee | 2017 09 13 – 2017 09 15 |
| Submission of appeals to the Head of the Doctoral Institution to which the applicant applied | 2017 09 18 – 2017 09 20 |
| Announcement of a list of invited candidates | 2017 09 27 |
| Signing agreements with the Doctoral Institution | 2017 09 28 -2017 09 29 |

7. ADMISSION OF CITIZENS OF FOREIGN COUNTRIES TO DOCTORAL PROGRAMME STUDIES

- 7.1. Applicants from foreign countries, having acquired a Master's degree or corresponding qualification outside the Lithuanian Republic, have to submit all the documents indicated in Section 3 and the following additional documents:
 - 7.1.1. Notarised translation of the Master's degree diploma and its supplement into the Lithuanian language.
 - 7.1.2. Document recognizing the qualification acquired abroad (according to Decision No. 212 of 29 February 2012 of the Lithuanian Republic Government "On approval of provisions for academic recognition and assessment of qualifications acquired abroad which provide right to higher education and higher education qualifications" (Official Gazette, 2012, No. 29-1290), issued by the Centre for Quality Assessment in Higher Education (<http://www.skvc.lt/en/content.asp?id=4>).
 - 7.1.3. Application form for admission is filled in English. Curriculum vitae, a list of scientific publications and their copies can be presented in the English language.
- 7.2. Applicants taking part in the competition take their responsibility for all travel expenses and documents: passport, visa, temporary residence permit, health insurance etc.
- 7.3 Applicants who have been admitted to doctoral programme studies, need to obtain a permission for temporary residence in the Republic of Lithuania or a permission to live in the Lithuanian Republic as a citizen of the country member of the European Community or have a permission to live in the Lithuanian Republic permanently.

8. TUITION FEES PER YEAR

- 8.1. Students admitted to fee-paying study places have to pay a normative fee for tuition approved by the Order No. V-189 of 22 March of 2017 of the Minister of Education and Science of the Lithuanian Republic:
 - 8.1.1. 8223 EUR per year for full-time studies;
 - 8.1.2. 5482 EUR per year for part-time studies.
- 8.2. Tuition fee can be reduced upon the decision of doctoral institution.

8.3. Tuition fee should be paid in 15 calendar days from the day the study contract comes into effect.

9. CONTACTS

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| Vytautas Magnus University | K. Donelaičio str. 52–303, Kaunas Contact person – Rasa Andrišiūnaitė, tel. +370 37 209 815, + 370 619 21615, email: darbuotojai.mid@vdu.lt Office hours: 9.00–15.00. |
| Lithuanian Research Centre for Agriculture and Forestry | Instituto al. 1, Akademija, Kėdainiai district Contact person – Vita Tilvikienė Tel. +370 347 37752, email: vita@lzi.lt . Office hours: 9.00–15.00. |
| Lithuanian University of Health Sciences | Mickevičiaus str. 7–117, Kaunas Contact person – Jūratė Janušaitienė Tel. + 370 37 32 72 76, email: jurate.janusaitiene@ismuni.lt Office hours: 9.00–15.00. |

ASSESSMENT OF SCIENTIFIC PUBLICATIONS

| Type of scientific work | Measurement unit | Points |
|--|------------------|--------|
| Scientific articles in publications, refereed in <i>Thomson Reuters Web of Knowledge</i> databases with citation index | Author's input* | 8 |
| Scientific articles in other publications, refereed <i>Thomson Reuters Web of Knowledge</i> databases | Author's input | 6 |
| Scientific articles in scientific publications, refereed in other international databases | Author's input | 3 |
| Scientific articles in other reviewed scientific publications | Author's input | 2 |
| Scientific articles in reviewed cultural, art and professional publications; in conference proceedings | Author's input | 1 |
| Other ** | Author's input | 0–4 |

* Author's input (AI) is calculated according to the formula: $AI=1/N_A$, where N_A is the total number of authors of the article. For example, if the number of authors is 4, one author's input is worth 0.25, i.e. $AI = 1/4 = 0.25$.

** The Committee shall also have a right to assess other applicant's scientific output that is not included in this table, and assign additional points from 0 to 4.

Reviewed scientific articles: reviewed periodical publications, reviewed series or one-time publications, having editorial board of scholars and ISSN or ISBN number.

Scientific article is an article published in scientific publications, written in compliance with requirements for a scientific article in a particular science field (footnotes, bibliography, formulas, drawings, description of methodology, statistic tables, and etc.), and corresponding to the scientific criteria, recognised in that science field; the minimum scope valid is 0.25 of the quire. The decision to accept shorter than 0.25 (1 quire = 14 pages) of the quire scientific publications is made by the Committee.

The total sum of points is converted into a 10-point grading system as follows:

- The maximum number of points of the applicant (Tmax) equals 10 points.
- Tmax divided by 10 equals the constant -k ($k = Tmax/10$).
- The total scored sum of other competition participants' points is divided by constant -k, and equals the applicant's number of points for scientific publications (points are rounded off to one decimal place).

RECOMMENDATION REQUIREMENTS FOR SCIENTIFIC RESEARCH PROJECT

1. A scientific research project of a Ph.D. applicant (hereafter a Project) is an independent scientific work, which aims to reveal the author's scientific abilities, creativity, methodological preparation, motivation, theoretical preparation, practical experience, and particular scientific experience in the chosen topic.
2. The scientific Project shall describe the problem to be examined; evaluate its relevance and perform the analysis of previous research on the topic; define the aim and objectives of the work; identify possible directions and research methods.
3. The Project shall consist of the following sections:
 - **INTRODUCTION.** This section deals with the relevance of the topic, its novelty, the necessity for further exploration, formulates the research problem, plans the object, purpose and objectives of the dissertation, sets hypotheses and/or defensive theses.
 - **LITERATURE REVIEW.** This section covers the exploration of the topic in Lithuania and the world, how the dissertation thesis can contribute to the accomplished research.
 - **METHODOLOGY.** This section aims at discussing possible methods and process of the research and explaining how the data will be analysed, how reliability will be determined.
 - **BIBLIOGRAPHY.** In this section, reference sources and literature are provided, used when preparing the Project.
4. The scope of the Project is 8 000–12 000 characters (with spaces), i.e. approximately 4-5 pages.
5. The text should be printed in 1.5 spacing between lines, 12 pt., Times New Roman. Margins of the page are as follows: left – 3cm, right – 1.5, top and bottom – 2 cm.

ASSESSMENT CRITERIA OF SCIENTIFIC RESEARCH PROJECT

1. The object of the research, scientific problem, purposes and objectives are formulated precisely and clearly.
2. The relevance of the chosen topic is determined in the context of scientific research and development.
3. The applicant can substantiate the prospective research theoretically, is familiar with the accomplished research on the chosen topic, can show links between different works, compare and generalise critically, formulate conclusions.
4. The chosen material for the research corresponds to the object of the research, is authentic and sufficient.
5. The chosen research methodology complies with the purposes and objectives of the research.
6. The project is written in scientific language and meets the methodological requirements set for scientific research (it is a conscientious piece of work, new and original ideas are presented, thoughts are logical and coherent, references and bibliography are consistent, the style of the scientific language is accurate).