

EDITAL 003/2018

EDICT003/2018–SELECTION FOR ADMISSION IN MARCH/2018 OF DOCTORATE AND MASTER’S STUDENTS

The Postgraduate Program in Geosciences (PPGGEO) releases by means of this edict the selection for admission, in March 2018, for formation at **DOCTORATE** and **MASTER’S DEGREE**, according to the places described in the APPENDIX I (RELATION OF PLACES FOR EACH SUPERVISOR, IN EACH AREA OF CONCENTRATION). The selection will be performed by the PPGGEO Committee of Post-graduation which will homologate its final result.

1. REGISTRATIONS

The registration for the selection will happen from **September, 10th to September, 17th, 2018** at the of the PPGGEO office either personally or by proxy, giving specific authority for that by express mail (e.g. FEDEX) or equivalent.

Documents sent by regular mail will be not accepted, as well as registrations sent by mail with date of register afterwards the last day of registration.

The PPGGEO office is located at Bento Gonçalves Avenue, n° 9.500, building 43113, room n° 207, Campus do Vale, Agronomia District, Porto Alegre, RS, ZIP Code 91.501-970 / PO Box 15001, telephones (51) 3308.6340 or (51) 3308.6332, e-mail(selecaoppggeo2018@ufrgs.br). Its working hours are:

- Monday: 2 to 5 p.m.;
- Tuesday: 9 to 12 a.m. – 2 to 5 p.m.;
- Wednesday: 9 to 12 a.m. – 2 to 5 p.m.;
- Thursday: 9 to 12 a.m. – 2 to 5 p.m.;
- Friday: 9 to 12 a.m.

It will be accepted registrations of regular students of the PPGGEO, as long as in accordance with the Rule 114.

The applicant holding any type of disability, proved by due medical certificate stating the International Classification of Diseases (ICD), must inform this condition in the respective blank of the registration form, indicating which kind of assistance will be necessary during the test and along the postgraduate course alike.

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The applicants who prefer to take the specific knowledge test in other location than Porto Alegre have to indicate that in the respective blank of the registration form.

The locations of the specific test outside Porto Alegre will be published according to the item 3.3.1 of this EDITAL.

2. DOCUMENTS NECESSARY FOR THE REGISTRATION

2.1. Registration form filled, available at:

(<https://www.ufrgs.br/ppggeo/enrollment/ingressoseditais/?lang=en>);

2.2. Brazilian applicants: Copy of the ID (or equivalent) and CPF (not necessary if the ID holds the CPF number);

2.3. Foreign applicants: Passport copy;

2.4.1. **For Master of Science candidates:** (a) Copy of the graduate course certificate. For students in the last term of the course it will be allowed to present either the original or the copy of a document issued by the Graduation Committee indicating its probable conclusion up to February 2019; (b) School report of the graduate course with respective grades of each subject;

2.4.2. **For PhD candidates:** (a) Copy of the MSc certificate. For students who concluded the master's degree, but still do not have the certificate it will be allowed to present either the original or the copy of a document issued by the Postgraduate Program stating the master's degree conclusion. For students that still do not concluded the master's degree, it will be allowed to present a document (or its CERTIFIED copy) issued by a Postgraduate Program stating its probable conclusion up to February 2019; (b) School report of the master's degree indicating the grades in each subject, as well as the beginning and the conclusion of that course. Note: If there is no indication in the school report of the beginning and conclusion dates, an additional document issued by Postgraduate Course with this information must be supplied;

2.5. For all candidates: HARD COPY of the *Curriculum vitae*, in the *Plataforma Lattes/CNPq* (<http://lattes.cnpq.br>) for Brazilians and in Lattes Plataform or other models of CV, with respective SUPPORTING DOCUMENTS organized according to the CV sequence;

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2.6.1. For Master of Science candidates: Proposal of a dissertation plan, with up to three pages, presenting: Title; area of concentration; research field; likely supervisor indicated by the applicant; introduction; objectives; material and methods; results; estimated budget; funding agency (if the case); chronogram of activities; references. Information about the supervisors of the course, areas, and research fields is available at (<https://www.ufrgs.br/ppggeo/pesquisa/docentes/>);

2.6.2. For PhD candidates: Proposal of a thesis plan, with up to five pages, presenting: Title; area of concentration; research field; likely supervisor indicated by the applicant; introduction; objectives; material and methods; results; estimated budget; funding agencies (if the case); chronogram of activities; references.

Information about the supervisors of the course, areas, and research fields are is available at (<https://www.ufrgs.br/ppggeo/pesquisa/docentes/>);

2.7. Medical certificate with the International Classification of Diseases (ICD), for applicants holding disabilities.

3. SELECTION

The selection for the admission in the Master's degree and Doctorate courses is composed of four stages, coordinated by the PPGGEO's Postgraduation Committee, as follows:

1st Stage of registration's homologation; **eliminary**.

2nd Stage of assessment of the dissertation/thesis plan; **eliminary**.

3rd Stage of written test on specific knowledge; **eliminary**.

4th Stage of CV analysis. **Analysis of the applicant CV to compose the final score.**

The final grade of each applicant will be composed by the grade of the specific knowledge test plus the score of the CV.

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3.1 REGISTRATION'S HOMOLOGATION

The registration's homologation is ELIMINATORY and will be carried out by the examination of the documents presented by the applicants according to the items 1 and 2 of this edict.

The absence of any mandatory document will result in the exclusion of the applicant from this selection.

It will not be allowed the inclusion of supplementary documents after the period of registration determined in this edict.

The lists with the applicants' names whose registrations have been homologated will be posted, according to the respective areas of concentration, at the webpage of this postgraduate program (www.ufrgs.br/ppggeo) as well as at its message board on **September 24th, 2018**.

The readdress deadline of the registration's homologations is **September 25th, 2018**, according to the APPENDIX II (CHRONOGRAM OF THE SELECTION), and must be sent **exclusively** by e-mail to selecaoppgeo2018@ufrgs.br.

3.2. ASSESSMENT OF THE DISSERTATION/THESIS PLAN

This part of the process is ELIMINATORY.

MASTER AND DOCTORATE DEGREES

The supervisor indicated by the applicant in the registration form will assess the dissertation plan according to the following aspects: (I) affinity between the theme and the PPGGEO's line of research indicated by the applicant; (II) significance; (III) adequacy of the methodology and chronogram to the fulfillment of the objectives and achievement of the expected results; (IV) financial viability.

It will be assigned grades from 1 to 5 (one to five) for each criterion above mentioned both for the plans of dissertation and thesis, as follows:

1- Weak; 2- Regular; 3- Good; 4- Very good; 5- Excellent.

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It will be considered suitable for homologation by the PPGGEO Postgraduation Committee the plans of dissertation and thesis with final grades between 3 and 5 in their assessments.

The limit date of readdress for the Stage of Assessment of the Dissertation/Thesis Plan is **October 05th, 2018**, according to the chronogram (APPENDIX II), and it must be sent to the email selecaoppggeo2018@ufrgs.br.

3.3. STAGE OF SPECIFIC KNOWLEDGE TEST

The stage of specific knowledge test is ELIMINATORY.

The PPGGEO Committee of Postgraduation will submit the qualified applicants to a written test of specific knowledge relative to area of concentration chosen by the applicant. The written test will occur on the **November, 21st, 2018**.

The test of specific knowledge will be written either in Portuguese or in English.

The PPGGEO Postgraduate Committee will give grades between 0 and 10 (zero and 10) to the specific knowledge test. The applicants with grades lower than 6.0 will be excluded from the selection. In such instances, the CV will not be considered.

The program of the specific knowledge tests and the respective bibliography for each area are in the APPENDIX III (PROGRAMME OF THE SPECIFIC KNOWLEDGE TESTS AND SUGGESTED BIBLIOGRAPHY).

To get into the test place, the applicants need to present an identification document with photo (ID, passport, or similar) and sign a presence list.

The tests of specific knowledge and their responses, as well as the lists of both approved and reprovved applicants for each Concentration Area will be published at the PPGGEO webpage (www.ufrgs.br/ppggeo) and at its message board on **November 30th, 2018, according to the chronogram (APPENDIX II).**

The limit date of readdress for the specific knowledge tests is **December 4th, 2018**, according to the chronogram (APPENDIX II), and it must be sent to the email selecaoppggeo2018@ufrgs.br.

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3.3.1. LOCATIONS OF THE SPECIFIC KNOWLEDGE TEST

In Porto Alegre the specific knowledge tests will be applied at Instituto de Geociências/UFRGS, Bento Gonçalves Avenue, 9500, Campus do Vale, Porto Alegre, Rio Grande do Sul. The respective rooms will be published at PPGGEO webpage (www.ufrgs.br/ppggeo) as well at its message board on **October 22th, 2018**.

The locations of the tests outside Instituto de Geociências (other cities or countries) will be published at PPGGEO webpage (www.ufrgs.br/ppggeo) and its message board on **October 22th, 2018**.

3.4. CV ANALYSIS STAGE

The CV analysis and the calculation of the final grade will be carried out only for those applicants whose grade in the specific knowledge test was at least 6.0.

The list with the valid items are in the APPENDIX IV [SCORES TO BE REACHED IN THE EVALUATION OF THE LATTES CV (CNPq) DOCUMENTED].

Items that are not present in the APPENDIX IV, will not be scored and must not be included;

Items without the respective documentation will not be scored;

The PPGGEO Committee of Postgraduation will give grades from 0 to 10 (zero to ten) for the CV of each applicant according to the APPENDIX IV of this edict.

The limit date of readdress for the Stage of CV analyses will be on **December 18th, 2018**, according to the chronogram (APPENDIX II), and it must be sent to the email selecao_ppggeo2018@ufrgs.br.

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4. RESULTS

It will be considered APPROVED the applicant whose final grade is 6.0 (six) or higher. The classification of each applicant will follow the score obtained in their Area of Concentration, observing the number of places supplied by the supervisor (APPENDIX I).

For the MASTER'S DEGREE applicants the final score will be the sum of the score of the knowledge test (70% of the final grade) and the CV analysis (30% of the final grade).

For the DOCTORATE applicants, the final score will be the sum of the results of the specific knowledge test (50% of the final grade) and the CV analysis (50% of the final grade).

The applicants approved but not classified for the positions available by the supervisors in the same area of concentration (APPENDIX I), will be considered substitute for those positions. In the situation of places not filled for any supervisor in the same area, they can be filled by the substitutes with the due agreement between the applicant and the supervisor. The period reserved for the filling of places by substitutes following their classification order, in both cases, ceases 15 days after the registration period in 2019.

Based on of the final results the PPGGEO Postgraduate Committee will publish the following lists at the PPGGEO webpage (www.ufrgs.br/ppggeo), identifying the applicants according to the respective registration numbers:

- 1) Master's degree applicants, from the highest to the lowermost grades, according to the area of concentration;
- 2) Substitutes: master's degree applicants approved but not classified for the available places by the supervisor indicated (APPENDIX I) in each area of concentration;
- 3) Doctorate applicants, from the highest to the lowermost grades, according to the area of concentration;
- 4) Substitutes: doctorate applicants approved but not classified for the available places by the supervisor indicated (APPENDIX I) in each area of concentration;
- 5) Master's degree applicants non-approved in each area of concentration;
- 6) Doctorate applicants non-approved in each area of concentration.

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In case of parity of the final grades of the approved applicants it will be adopted the following procedures:

- 1º) Grade of the specific knowledge test;
- 2º) Number of published articles. In case parity of the number of publications, the articles will be classified according to the QUALIS-CAPES ranking;
- 3º) If the parity persists, the preference for the position will be given to the eldest applicant.

All the lists above mentioned will be available at the PPGGEO webpage (<http://www.ufrgs.br/ppggeo>) and its message board on **December 21th, 2018**, according to the chronogram (APPENDIX II).

5. FINAL CONSIDERATIONS

The approval and classification in the selection ensure exclusively the ADMISSION in the postgraduate program, but not BURSARIES.

The bursaries are offered to the applicants that request them, according to their classification in the respective area of concentration chosen in the registration.

It is responsibility of the applicant the withdraw at the PPGGEO office of the documents presented in the registration of this selection, if not approved. The documents may be taken personally or, alternatively, they can be mailed as long as the applicant provides the due payment for the mailing. The documents will be kept for up to 3 (three) months at the PPGGEO office, after the end of the selection. At the end of this period, the documents will be discarded.

Any question about the content of this edict must be sent EXCLUSIVELY by email to selecaooppggeo2018@ufrgs.br.

Approved in meeting by the Geosciences Postgraduation Committee (IG/UFRGS) at 05/29th/2018 and by the UFRGS Postgraduation Chamber at 07/17th/2018.

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APPENDIX I – RELATION OF PLACES PER SUPERVISOR IN EACH AREA OF CONCENTRATION.

AREA OF STRATIGRAPHY

SUPERVISOR	MASTER'S DEGREE	DOCTORATE
Ana Maria Pimentel Mizusaki	0	3
Andréa Ritter Jelinek	1	0
Claiton Marlon dos Santos Scherer	1	0
Jairo Savian	1	0
Juliana Charão Marques	1	1
Juliano Kühle	3	2
Luis Fernando De Ros	2	2
Marcus Vinicius Dorneles Remus	1	0
Norberto Dani	1	0
Paulo Alves de Souza	1	2
Wolfgang Dieter Kalkreuth	3	1

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AREA OF MARINE DE GEOLOGY

SUPERVISOR	MASTER'S DEGREE	DOCTORATE
Eduardo Barboza	1	1
Iran Carlos S. Corrêa	1	1
Jair Weschenfelder	2	1
Jairo Savian	2	0
Jefferson Cardia Simões	0	0
Leandro Farina	2	2
Maria Luiza da câmara Rosa	0	0
Maria Alejandra Gomez Pivel	2	0
Sergio Rebello Dillenburg	2	2

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AREA OF GEOCHEMISTRY

SUPERVISOR	MASTER'S DEGREE	DOCTORATE
Ana Maria Mizusaki	1	0
Andréa Ritter Jelinek	2	2
André Sampaio Mexias	2	2
Ari Roisenberg	2	1
Artur Cezar Bastos Neto	1	0
Carlos Augusto Sommer	3	2
Edinei Koester	3	2
Evandro Fernandes de Lima	1	1
Jairo Savian	3	1
Jefferson Cardia Simões	2	2
José Carlos Frantz	3	1
Juliana Charão Marques	3	1
Maria de Fátima A. Saraiva Bitencourt	3	2
Marcus Vinícius Dorneles Remus	2	0
Norberto Dani	1	1
Rommulo Vieira Conceição	3	3
Ruy Paulo Philipp	0	0
Taís Freitas	1	0
Wolfgang Kalkreuth	1	0

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AREA OF PALEONTOLOGY

SUPERVISOR	MASTER'S DEGREE	DOCTORATE
Ana Maria Ribeiro	1	1
Cesar Leandro Schultz	2	2
Fernando Erthal	2	0
João Carlos Coimbra	2	2
Margot Guerra Sommer	0	1
Marina Bento Soares	3	2
Paulo Alves de Souza	2	2
Roberto Iannuzzi	2	1

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APPENDIX II

CHRONOGRAM OF THE SELECTION

- Edital divulgation: **August, 7th, 2018.**
- Registration period: **10th to 17th September, 2018.**
- Publication of the list with the homologated registrations and applicants according to the documents necessary for the registrations and analysis of the thesis/dissertation plans: **September 24th, 2018.**
- Deadline for presentation of readdress of the registrations homologations: **September 25th, 2018.**
- Result of the readdress relative to the registration homologations and final list of registered applicants: **September 26th, 2018.**
- Stage of analyses of the dissertation/thesis plans by the committee: **September 27th to October, 2nd, 2018.**
- Publication of the result of the analyses of the dissertation/thesis plans: **October 3rd, 2018.**
- Deadline for presentation of readdress on the analysis of the dissertation/thesis plans: **October 5th, 2018.**
- Result of the readdress on the analysis of dissertation/thesis plans: **October 8th, 2018.**
- Divulgation of the location for the test of specific knowledge: **October 22th, 2018.** The locations will be published at the webpage (www.ufrgs.br/ppggeo).
- Tests of specific knowledge: **November 21th, 2018 from the 2 p.m to 05 p.m.**
- Divulgation of the tests of specific knowledge and their results: **November 30th, 2018.**
- Period for presentation of readdress on the specific knowledge tests: **December 4th, 2018.**
- Result of the readdress on the specific knowledge tests: **December 07th, 2018.**
- Divulgation of the grades of CV analyses, final grades and of the lists of the approved applicants (for area of concentration) as well as of the non-approved ones: **December 14th, 2018.**

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- Period for presentation of readdress of CV analysis and final classification: **December 18th, 2018.**
- Result of readdress of CV analysis and final classification: **December 21th, 2018.**
- **DIVULGATION OF THE FINAL RESULTS: December 21th, 2018.**
- Validity of this selection: **April 30th, 2019.**

The results of the selection will be published both at the webpage (www.ufrgs.br/ppggeo) and the message board of the postgraduation course.

**APPENDIX III – PROGRAMME OF THE SPECIFIC KNOWLEDGE TESTS AND BIBLIOGRAPHY
RECOMMENDED.**

PROGRAMME OF THE AREA OF STRATIGRAPHY

- Plate tectonics and sedimentary basins classification;
- Tectonics and sedimentation: types of subsidence and patterns of filling of sedimentary basins;
- Facies, facies associations, facies vertical succession: fundamental concepts, reconstruction of depositional systems;
- Types of formal stratigraphic units and the stratigraphic code; bio, chrono and litho units; utility, problems of application;
- Correlation – evidences of equivalence of strata, methods of correlation;
- Seismic stratigraphy–basic notions of seismic facies, stratal terminations, seismic units;
- Sequence stratigraphy: controlling factors, limiting factors, controlling factorsf, limiting surfaces, systems tractand stratigraphic sequences;
- Origin, primary composition and diagenetic evolution of the siliciclastic, carbonatic and evaporitic sedimentary rocks;
- Origin and environments of organic matter accumulation; types of basins and organic facies; generation, migration and accumulation of hydrocarbonates.

REFERENCES

- Hunt, J. M., 1979. Petroleum Geochemistry and Geology: San Francisco, W.H. Freeman, 617 p.
- Hunt, J. M., 1995. Petroleum Geochemistry and Geology, 2nd ed. New York, W. H. Freeman, 743 pp.
- Miall, A. D. 1990. Principles of sedimentary basin analysis. 2nd ed., Springer Verlag, 668p.
- Miall, A. D. 1999. Principles of sedimentary basin analysis. 3rd ed., Springer Verlag, 628p.
- Tucker, M. E. 1991. Sedimentary Petrology, 2nd ed.: Oxford, UK, Blackwell Science. 260 p.
- Tucker, M. E., 2001, Sedimentary Petrology, 3rd ed.: Oxford, UK, Blackwell Science. 262 p.
- Walker, R.G.; James, N.P. (eds.) 1992. Facies Models: response to sea level change. Geological Association of Canada, 409 p.
- James, N.P.; Dalrymple, R.W. 2010. Facies Models 4. Geological Association of Canada. 586p.

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Catuneanu, O., et al., 2009. Towards the standardization of sequence stratigraphy. Earth-Science Reviews, v. 92, p. 1-33.

PROGRAMME OF THE AREA OF MARINE GEOLOGY

- Formation and evolution of oceans;
- Physiography of the ocean bottom;
- Marine sedimentation;
- Sea level change;
- Paleogeographic evolution;
- Waves, tides and currents;
- Abiotic marine resources;
- Depositional systems:
 - Fluvial;
 - Lagoonal;
 - Coastal;
 - Deltaic;
 - Aeolian;
 - Glacial;
 - Shallow marine;
 - Deep marine;
 - Coastal bar.

REFERENCES

- Castelo J.P. & Krug, L.C. 2015. Introdução às Ciências do Mar. Editora Textos. Pelotas. 601p.
- Souza, C.R.G.; Suguio, K.; Oliveira, A.M.S.; Oliveira, P.E. 2005. Quaternário do Brasil. Holos Ed. Ribeirão Preto. 378p.
- Teixeira, W.; Toledo, M.C.M.; Fairchild, T.R.; Taioli, F. 2000. Decifrando a Terra. São Paulo, Oficina de Textos. 558p.
- The Open University. 1991. Collection prepared by an Open University Course Team. Pergamon Press. Títulos: The Ocean Basins – Their Structure and Evolution, Seawater – Its Composition, Waves Tides and Shallow Water Processes.

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PROGRAMME OF THE AREA OF GEOCHEMISTRY

- The Earth System and its origin;
- Global tectonics;
- The solid Earth: mineral and rocks;
- Atmosphere, climate and climatic changes;
- Igneous rocks;
- The hydrologic cycle and the subterranean water;
- Sedimentation: rocks formed in surface processes;
- Metamorphism: processes and products (alteration of rocks by temperature and pressure);
- Deformation of rocks: structures and processes;
- The geologic time scale and the datation of the geologic record;
- Volcanism;
- Earthquakes;
- Seismology and the Earth interior;
- Intemperism and pedogenesis;
- Energetic resources and environment;
- Mineral resources of the Earth.

REFERENCES

Grotzinger, J. & Jordan, T. 2010. **Para Entender a Terra**. Porto Alegre: Bookman, Traduzido da 6ª ed., 2013, 738p.

Teixeira, W.; Fairchild, T.R.; Toledo, M.C.M. & Taioli, F. 2009. **Decifrando a Terra**. 2ª edição, São Paulo: Companhia Editora Nacional, 623p.

Grotzinger, J. P. & Jordan, T.H., 2014. **Understanding Earth**. 7th Edition, W. H. Freeman, 650 p.

PROGRAMME OF THE AREA OF PALEONTOLOGY

- Paleontology: objectives, principles and applications to the geosciences;
- Fossil types and fossilization processes;
- Geologic time and life evolution;
- Biostratigraphy;
- Sequence stratigraphy and fossil record;
- Taphonomy: processes, fossilization environments and methodological procedures;
- Paleocology and paleoenvironments;
- Paleogeography and paleobiogeography;
- Evolution: evolution theories, processes of speciation and extinction;
- Taxonomy and systematics: principles;
- Taxonomy and systematic of fossil groups;
- Examples and applications of invertebrate, vertebrate, plants and microorganisms fossil groups in the subjects aforementioned.

REFERENCES

Carvalho, I.S. (ed.) 2010 Paleontologia. Rio de Janeiro, Ed. Interciência, 3ª edição, volume 1. 756 p.

Prothero, D. R. Bringing Fossils to life: An Introduction to Paleobiology - PART I: The fossil record: a window on the past. Columbia University Press, 2013, 3rd edition, 672 p.

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APPENDIX IV—SCORES FOR THE *LATTES* CURRICULUM ANALYSIS

MASTER'S DEGREE

1. **School report (percentage of predominant grades in the subjects):** A=60points B = 50 points, C = 40 points (A = 9.0 – 10.0; B = 7.5 –8.9; C = 6.0 – 7.4).
2. **Published scientific production (maximum 20 points):**
 - Published articles in journals QUALIS – CAPES Geosciences* A1 and A2 = 8 points per article;
 - Published articles in journals QUALIS – CAPES Geosciences* B1 and B2 = 5 points per article;
 - Published articles in journals QUALIS – CAPES Geosciences* below B3 = 3 points per article;
 - Published articles in non-indexed journals* = 2 points
 - Chapter in international book published in the Geosciences area*= 6 points per chapter;
 - Chapter in national book published in the Geosciences area*= 5 points per chapter;
 - Complete article published in Geosciences event* = 4 points per article;
 - Expanded abstract (**minimum three pages**)published in Geosciences event= 3 points per abstract;
 - Abstract in Geosciences event* = 2 points per abstract (maximum **10 abstracts**)

Observation 1:The validation of the scientific production is given by the presentation of the title page of the abstract/article/book chapter/book as long as the page presents the journal or book title, the publisher, author/authors, date and pages number.If the title page does not present those information, additional pages must be supplied in order to validate the data necessary.

Observation 2:The validation of the scientific production accepted but not publishedin given by the presentation of the complete article (or book chapter, or other) including the editor's letter stating the manuscript approval.

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Observation 3: Publications in areas other than Geosciences will be multiplied by a 0.7 factor.

3. **Other academic or professional activities (relative to the academic-scientific and professional area) (maximum 20 points):** Scientific initiation work (even voluntary one): 3 points per semester; traineeship in companies linked to universities in the geosciences area: 3 points per semester; teaching assistance: 3 points per semester; college/university teaching: 3 points per semester; professional activity in the geosciences area as employee: 3 points per semester; professional activity in the geosciences area as self-employed: 1 point for each ART issued.

DOCTORATE

1. **Master's degree course duration (maximum 25 points):** 24 months = 20 points.

It will be added 1 point for each month earlier the conclusion period of 24 months, and 1 point deduced for each month beyond the period of 24 months. The master's degree time is counted from the first enrollment of the student in a postgraduate course, independent of the interruptions. **Students concluding the master's degree course** will obtain the score maximum of 20, as long as they present a document stating the conclusion up to February 2016 (corresponding to 24 months) issued by a PPG.

2. **Master's degree School report (predominant grades in the subjects):** A=30 points, B = 20 points, C = 10 points (A = 9.0 – 10.0; B = 7.5 – 8.9; C = 6.0 – 7.4).

3. **Published scientific production (maximum 35 scores):**

- Published articles in journals QUALIS – CAPES Geosciences* A1 and A2 = 8 points per article;
- Published articles in journals QUALIS – CAPES Geosciences* B1 and B2 = 5 points per article;
- Published articles in journals QUALIS – CAPES Geosciences* below B3 = 3 points per article;
- Published articles in non-indexed journals* = 2 points;
- Chapter in international book published in the Geosciences area* = 6 points per chapter;
- Chapter in national book published in the Geosciences area* = 5 points per chapter;

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- Complete article published in Geosciences event* = 4 points per article;
 - Expanded abstract (**minimum three pages**) published in Geosciences event = 3 points per abstract;
 - Abstract in Geosciences event* = 2 points per abstract (maximum **10 abstracts**)
4. **Observation 1:** The validation of the scientific production is given by the presentation of the title page of the abstract/article/book chapter/book as long as the page presents the journal or book title, the publisher, author/authors, date and pages number. If the title page does not present those information, additional pages must be supplied in order to validate the data necessary.
 5. **Observation 2:** The validation of the scientific production accepted but not published is given by the presentation of the complete article (or book chapter, or other) including the editor's letter stating the manuscript approval.
 6. **Observation 3: Publications in areas other than Geosciences will be multiplied by a 0.7 factor.**
 7. **Other academic or professional activities (relative to the academic-scientific and professional area) (maximum 10points):** college/university teaching: 5points per semester; professional activity in the geosciences area as employee: 3 points per semester; professional activity in the geosciences area as self-employed: 1 point for each ART issued.