



**UNIVERSITY OF THESSALY
SCHOOL OF TECHNOLOGY
DEPARTMENT OF FORESTRY, WOOD SCIENCES & DESIGN**

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**NOTICE - INVITATION FOR DOCTORAL CANDIDATES TO SUBMIT APPLICATIONS
For the Spring Semester of the Academic Year 2023-2024**

The Department of Forestry, Wood Sciences and Design of the School of Technology of the University of Thessaly, in accordance with the Assembly decision no. 105/20-03-2024 (item 1), announces **fourteen (14)** new positions for doctoral candidates and invites those interested to submit a relevant application in the following proposed fields of knowledge / subjects by faculty members of the FWSD Department:

1. Intelligent Technologies and Environmental Education (Supervisor: Karageorgos Antonios).
2. Artificial Intelligence and Environmental Risk Management (Supervisor: Karageorgos Antonios).
3. Development of digital design techniques for manufacturing difficult geometries with hybrid manufacturing (3D-4D printing) (Supervisor: Kechagias Ioannis).
4. Design and construction of digital thread for graded physical models (Supervisor: Kechagias Ioannis).
5. Geographic Information Systems (GIS) and intelligent geo-location methods for environmental management of areas (Supervisor: Lallas Efthymios).
6. Innovative solutions for lightweight, sustainable and customized products in the wood and furniture industries (Supervisor: Ntalos Georgios).
7. Improvement of wood properties of fast-growing species with the use of nanoparticle formulations (Supervisor: Ntalos Georgios).
8. Optimizing road adaptability in extreme climate scenarios (Supervisor: Papageorgiou Grigorios).
9. Road infrastructure management (Supervisor: Papageorgiou Grigorios).
10. International marketing of wood & furniture products (Supervisor: Papadopoulos Ioannis).
11. Climate neutral entrepreneurship and carbon markets (Supervisor: Trigkas Marios).
12. Carbon farming and long-term carbon sequestration in the forest value chain. Entry models in carbon markets (Supervisor: Trigkas Marios).
13. Corporate Sustainability Reporting and Sustainable/Circular Entrepreneurship (Supervisor: Trigkas Marios).
14. Circular bioeconomy models in the chain utilization of forest biomass (Supervisor: Trigkas Marios).

Submission of applications to start the thesis from the Spring Semester of the Academic Year 2023-2024: **until April 30, 2024.**

The required supporting documents are submitted in a nomination file and are as follows:

1. Paper completed application, which is posted at the address <https://forms.gle/aQa3bJerFE3c5AV67>
2. Detailed curriculum vitae.
3. Draft doctoral thesis, where the proposal for the preparation of the doctoral thesis is developed in full, and includes the following:
 - Greek and English title,
 - Keywords,
 - brief description (200-400 words),
 - main purpose – research questions (200-400 words),
 - literature review (300-600 words),
 - research methodology (400-600 words),
 - bibliographical references,
 - justification of the originality of the research and its appropriate implementation in the FWSD Department.
4. Certified copy of degree or diploma, recognized by DOATAP, if it has been obtained from HEIs of the foreign country.
5. Certified copy of a master's degree, or a single and undivided master's degree (integrated master) of article 46 of Law 4485/2017 and recognized by DOATAP, if it has been acquired by HEIs of the foreign country.
6. Certificates of analytical scores of undergraduate and postgraduate degrees
7. Evidence of very good knowledge of a foreign language, at least B2 level.

According to No. 20/14.4.2020 (item 4) of the Assembly of the FWSD Department, the level of foreign language proficiency (level at least B2) is demonstrated in the following ways:

- a) State Language Certificate of Law 2740/1999 as replaced by par. 19 of Article 13 of Law 3149/2003,
- b) with certificates of a corresponding level from other bodies (universities or not) regardless of their legal form, as long as they are certified or recognized by the competent authority of the country concerned to conduct examinations and grant certificates of knowledge of the foreign language at the corresponding level,
- c) With a degree in Foreign Language and Philology or a degree in Foreign Languages Translation and Interpreting from the country or equivalent and equivalent from schools abroad,
- d) With a Degree, undergraduate or postgraduate diploma or doctoral degree from any recognized institution of higher education abroad,
- e) With a Baccalaureate title equivalent to Greek Secondary Education schools, as long as it has been obtained after regular study of at least six years abroad.

8. Photocopy of police ID
9. Two (2) recent photographs.

The selection of doctoral candidates, provided they meet the above conditions, is made taking into account the following basic and additional criteria.

Basic Criteria:

- Relevance of the degree to the scientific fields of the FWSD Department and/or to the subject of the doctoral thesis.
- Relevance of the master's degree to the scientific fields of the FWSD Department and/or to the subject of the doctoral thesis.

- Overall grade of the degree (at least "six and a half" (6.50) is required). Regardless of the degree level, the following can be accepted: a) candidates with at least five years of research activity documented by recent publications in reputable journals and a similar research project related to the subject of the doctoral thesis, b) Scholars of the IKY or other Organizations that grant scholarships after examinations or assessment. It is noted that according to No. 20/14.4.2020 (item 3) of the Assembly of the FWSD Department, "In the calculation of the research activity, the following are weighted: one year for each year of study of a relevant master's degree, and one year for each publication in a reputable science magazine. To the above time is added the time of activity resulting from evidence of participation in other research projects or evidence of documented research professional employment".
- Master's overall grade (minimum 7.00 required).

Supplementary Criteria:

- Two recent letters of recommendation.
- Scholarship or financial support (positively considered).
- Details of the candidate's CV demonstrating their research and professional experience and achievements.
- Other qualifications (Bachelors).

In particular, for the **evaluation of each proposal**, the Committee scores on a scale of 1-5, the following criteria:

- **Title** - It contains important keywords that identify the scientific field of the proposal;
- **Justification of originality.**
- **Clear positioning of the research problem** - The gap that the research comes to fill (correlation with previous research).
- **Clarity of the research questions.**
- **Objectives** (specific, measurable, achievable, realistic).
- **Satisfactory description of the general scientific area and the individual areas** in which the proposed research falls. Satisfactory reporting of key concepts for research.
- **Literature review** - To make evident the fairly good knowledge of the specific field with modern references of previous efforts in the research subject. Relevancy check - appropriateness of cited bibliography.
- **Research methods** - Reference to the proposed form of research and justification for its use.
- **Expected results** - Contribution to the research area of the study - Presentation of the desired contribution to the research problem to advance scientific knowledge in the specific field.
- **Quality of writing** - Clear and professional presentation of the research proposal (plagiarism should not exceed 20% on Turnitin). It refers to syntax, grammar, quality of written speech.
- **Research plan and schedule.**
- **Overall picture of the proposal:** existence of a cover, contents, summary, separation of sections (or stops here, or we fully describe the elements of the overall picture of the proposal).
- **Degree of importance of the research proposal** (according to the assessor).
- **Report limitations of the research.**

For the evaluation of the interview of each candidate, the Committee scores on a scale of 1-5, the following criteria:

- Presentation of his/her work

- Scientific training on the subject of FWSD
- Scientific training related to the subject of the proposal
- Formulating answers
- Contact
- Incentives for preparing a doctoral thesis
- Offer availability in the educational & research project of FWSD
- Availability of physical presence on the FWSD

For more details of the doctoral thesis preparation process, those interested can refer to the approved regulations for doctoral studies of the Department of Forestry, Wood Sciences and Design ([ΦΕΚ 2420/τ.Β/12.04.2023](#)).

The supporting documents must also be submitted in electronic form to the e-mail address: g-fwsd@uth.gr

For additional information, interested parties can contact the following telephone numbers on all working days: 24410-64730.

THE HEAD OF THE DEPARTMENT

(sign) *

PROFESSOR GEORGIOS NTALOS