

PUBLIC SELECTION FOR ONE TENURE-TRACK – PROBATIONARY, ASSISTANT PROFESSOR (RICERCATORE A TEMPO DETERMINATO) WITH FULL TIME TEMPORARY CONTRACT PURSUANT TO ITALIAN LAW NO. 240/2010, ART. 24 PARAGRAPH 3 LETTER B, AT THE ACADEMIC CLASS OF EXPERIMENTAL AND APPLIED SCIENCES, IN THE ACADEMIC RECRUITMENT FIELD 09/A2 APPLIED MECHANICS – ACADEMIC DISCIPLINE ING-IND/13 APPLIED MECHANICS, ISSUED BY RECTOR’S DECREE NO. 330 DATED 23/05/22/2022

MINUTE OF THE PRELIMINARY MEETING

The Evaluation Committee for the selection of one tenure-track – probationary, assistant professor (ricercatore a tempo determinato) for the Academic Recruitment Field 09/A2 Applied Mechanics – Academic Discipline ING-IND/13 Applied Mechanics, at the Academic Class of Experimental and Applied Sciences – Institute of Mechanical Intelligence of the Sant’Anna School of Advanced Studies - Pisa pursuant to Italian Law No. 240/2010, Art. 24 paragraph 3 letter B, appointed by decree No. 300 dated May, 23, 2022 by the Rector, consists of:

- Prof. Massimo Callegari, Full Professor of the Academic Recruitment Field 09/A2 “Applied Mechanics” at the Università Politecnica delle Marche;
- Prof. Jan Van Erp, Full Professor at the University of Twente;
- Prof. Marco Fontana, Associate Professor of the Academic Recruitment Field 09/A2 “Applied Mechanics” at Scuola Superiore Sant’Anna;
- Prof. Monica Malvezzi, Associate Professor of the Academic Recruitment Field 09/A2 “Applied Mechanics” at the University of Siena;
- Prof. Giulio Rosati, Full Professor of the Academic Recruitment Field 09/A2 “Applied Mechanics” at the University of Padova;

The Committee convened for the first time, via teleconference, on 14 June 2022, at 11.00 from the following locations:

Prof. Callegari located Polytechnic University of Marche, connected via webex.

Prof. Van Erp located University of Twente, connected via (means - address): webex

Prof. Fontana located in Scuola Superiore Sant’Anna , connected via (means - address): webex.

Prof. Malvezzi located in University of Siena , connected via (means - address): webex.

Prof. Rosati located in University of Padova, connected via (means - address): webex.

The draft of the following minute was agreed on and approved by the members of the Committee.

Prof. Massimo Callegari was nominated as Chairperson and Prof. Marco Fontana was nominated as Secretary.

Pursuant to Art. 5 paragraph 2 of Legislative Decree No. 1172/1948, each member declared to have no kinship or affinity up to the fourth grade with any of the other members and that there are not reasons for abstention in relation to art. 51 of c.p.c.

The Committee reviewed the call (published on the School website <https://www.santannapisa.it/it/selezioni-e-concorsi/selezione-pubblica-la-stipula-di-sei-contratti-di-ricercatore-tempo-determinato>)

as well as the Regulations of the School regarding the recruitment for tenure-track – probationary, assistant professors (Art. 24 paragraph 3 letter B).

The Committee then carried/adopted a motion that the Committee's work should terminate by September 23, 2022 (four months from the date of the nomination decree).

The Committee ascertained that Human Resources Office has communicated that two applications have been received, whereby there are two candidates admitted to the public interview.

The selection will be effected by means of a public interview about the qualifications, the publications and the research projects submitted by the applicant. During the public interview, the Committee will also assess the level of knowledge of the English language.

After the public interview, the Committee will attribute a score to the qualifications, to every publication submitted and to the overall scientific production of the candidates, including the research project, according to the parameters established by Ministerial Decree 243/2011 and to the criteria assessed in the present meeting.

The winner will be declared on the basis of the scores obtained.

Then the Committee assessed the criteria for the score attribution to the qualifications, to every publication submitted and to the overall scientific production of the candidates, according to the parameters established by Ministerial Decree 243/2011 and taking into account the minimum score for the proper assessment.

Criteria for the score attribution on the basis of the interview

The Committee will assign a maximum score of 100, allocated as follows:

QUALIFICATIONS - maximum score of 44 out of 100, allocated as follows:

- a) PhD or equivalent, awarded in Italy or abroad, up to: 4
- b) teaching activities at university level in Italy or abroad, up to: 3
- c) documented training or research activities carried out in qualified institutes in Italy or abroad: up to: 4
- d) project activities as regards the academic recruitment fields where applicable, up to: 7
- e) organization, management and coordination – or participation – in national and international research groups and PhD and student tutoring, up to: 10
- f) ownership of patents as regards the academic recruitment fields where applicable, up to: 4
- g) participation as a speaker in national and international conferences, up to: 6
- h) national and international awards for research activities, up to: 6

The Committee will assign a score to each abovementioned item in relation to its significance in terms of quantity and quality of the research activities carried out by the candidate.

PUBLICATIONS - maximum score of 42 out of 100

Publications will be assessed along with texts accepted for publication in accordance with regulations as well as the essays included in collective works and articles published in journals in paper or digital format, with the exception of internal notes or departmental reports; the PhD or equivalent thesis will be assessed too, even though unpublished.

The evaluation of scientific publications will be carried out on the basis of the following additional criteria:

- a) originality, innovation, methodological rigor and relevance of each publication;

- b) coherence of each publication with the academic recruitment field and with the specific profile of the call, or with closely related interdisciplinary subjects;
- c) scientific relevance of each journal / publisher and its impact factor within the scientific community;
- d) analytical determination, on the basis of guidelines recognized by the relevant international scientific community of the individual contribution of the researcher in the case of works carried out in partnership; specifically, the evaluation will take into account the number of co-authors of each publication and the consistency of the topic with respect to the overall scientific production of the candidate.

The Committee, balancing the scores, in the case of works carried out in partnership, shall pay particular attention to the individual contribution of the researcher, considered also in terms of originality, innovation, methodological rigor and relevance of each publication.

Moreover, assessing the publications, in sectors where international use is consolidated, the Committee decided to make use of the following indicators (among those listed in the Italian Ministerial Decree 243/2011, Art. 4 paragraph 4), with reference to the start date of the assessment:

- a) the total number of citations;
- b) the average number of citations per publication;
- c) the total impact factor;
- d) the average impact factor per publication;
- e) combinations of the above parameters to increase the impact of the candidate's scientific production (Hirsch index or similar).

The Committee will assign the following scores to the publications.

For each publication the score S is calculated as:

$$S = C1 + C2 + C3 + C4$$

where:

- the additive factor C1 (up to 1.25 points) evaluates originality, degree of innovation, methodological rigour, and relevance of the publication;
- the additive factor C2 (up to 1 point) evaluates the consistency of each publication with the ING-IND/13 Academic Discipline topics of the ING-IND/13 Academic Discipline or with interdisciplinary topics that are related with;
- the additive factor C3 (up to 0.75 points) evaluates scientific relevance and editorial position and the diffusion of each publication within the scientific community;
- the additive factor C4 (up to 0.5 point) evaluates the individual contribution of the researcher to collaborative researches.

The total score is obtained summing the score of each publication.

OVERALL CONSISTENCY OF THE SCIENTIFIC PRODUCTION AND RESEARCH PROJECT - maximum score of 14 out of 100 of which points 8 to be reserved for the evaluation of the research project.

The Committee shall also assess the overall consistency of the scientific production of the researcher, the intensity and the temporal continuity of such production, with the exception of periods of

involuntary removal from the research with particular reference to parental functions – such periods should be adequately documented.

The Committee will evaluate the research project with the following criteria:

- Scientific quality: quality of the overall scientific ideas and of the proposed methodology;
- Originality: level of novelties of the proposed ideas with respect to the state of the art;
- Impact: impact of the prospected outcomes on scientific community and society;
- Feasibility: feasibility of the proposed activities;
- Consistency with the ING-IND/13 Academic Field research topics.

In order to be eligible for the position, the applicants shall score a number of points equal or greater than 60 points.

The Committee decided that the maximum duration of the public interview with the candidates shall not exceed 45 minutes; during the interview, the Committee will also evaluate the level of knowledge of the English language using a summary assessment (i.e. not sufficient – basic – good – very good – excellent).

For the assessment of the level of knowledge of the English language, the candidates will be asked to conduct the interview in English language.

The Committee ascertained that the Call states that the date of the interview and the list of admitted candidates will be published on the web site of the School on May, 27, 2022 and decided that the interview will be on 13 July 2022 at 10.00.

The Committee decided to reconvene on 21 June 2022 at 12.00 in order to know the list of the candidates.

At the end of the meeting, the Committee decided that the Secretary would send a signed copy of this agreed minute to Staff Office, together with the declarations of approval by the other members of the Committee. These declarations form an integral part of this agreed minute.

The meeting was adjourned at 12.20

THE COMMITTEE

The Secretary