



**Politecnico
di Torino**

Selection procedure for Full Professor (Professore di I fascia) at Politecnico di Torino, in accordance with article n.18, paragraph n. 1, of the Italian law 240/2010

Rector's Decree 966 of September 28th 2023

Academic Recruitment Field 09/A1 Aeronautical and Aerospace Engineering and Naval Architecture

Academic Discipline ING-IND/06 Fluid Dynamics

Internal Code 26/23/P/O

Annex A

Evaluation Criteria

(part of the Minutes 1)

The Judging Committee of the selection procedure to cover one position for Full Professors (Professore di I fascia), Academic Recruitment Field 09/A1 Aeronautical and Aerospace Engineering and Naval Architecture Academic Discipline ING-IND/06 Fluid Dynamics, Internal Code 26/23/P/O, on the basis of the rules included in the Notice of Competition, conduct a comparative evaluation among the candidates with particular reference to the following five sections:

1. Scientific Activity;
2. Coordination of research groups and projects and research development in the "third mission";
3. National and international reputation and supporting activity for the scientific community;
4. Teaching activity;
5. Institutional offices and roles at Italian and foreign universities and/or public and private institutions.

1. Scientific activity (Maximum score 40)

1. The three main outcomes/results of the research activity: included in section n. 1.1 of the CV (Maximum score 20)

The Committee will express their opinion about the three main outcomes/results of the research activity by taking in consideration the existence of tangible and verifiable evidence that proves the presented results:

- are original, significant and are due to the determining, prevailing and clearly recognizable contribution of the candidate;
- have widely spread and obtained outstanding recognitions by the international scientific community;
- qualify the candidate as a distinguished international expert in his/her field.



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2. The publications included in section 1.2 of the CV (Maximum score 10)

The Committee examines the publications or the texts accepted for the publication according to the Italian law in force, as well as essays included in collectanea and articles edited on paper or digital journals. Internal documents (without DOI or ISBN code) or departmental reports are not considered as publications.

The evaluation of the submitted documents is done on the basis of the following criteria with equal priority.

- a) Coherence with the topics related to the specific Academic Recruitment Field (or Academic Discipline, if specified) or with related interdisciplinary topics;
- b) analytical definition, also on the basis of criteria which are recognized by the concerned scientific community, on the individual contribution of the candidate, if he/she participated in collaboration works/projects;
- c) quality of scientific production, assessed within the international research scenario, on the basis of the originality, of methodological rigor, of the innovative character, according to the criteria mentioned in point 1.3 below;
- d) editorial collocation of the scientific works in editors, book series or journals of national and international importance, which employ transparent procedures for the evaluation of the quality of the work to be published, according to peer-review systems;
- e) typology and relevance of the submitted publications. The relevance must be determined with respect to the specific Academic Recruitment Field and by taking into account the peculiarities and distinctive features of the Field itself or of the Academic Disciplines composing it.

A high quality publication is a publication, that, with respect to its level of originality, its methodological rigor, and its contribution to research advancement, has already achieved or is expected to achieve a significant impact on the scientific community, also at international level.

3. Overall Scientific production (Maximum score 10)

The evaluation of the overall scientific production is done on the basis of the following criteria with equal priority.

- a) coherence, relevance, impact and temporal distribution of the submitted publications within the specific Academic Recruitment Field (with particular emphasis to those published within the ten-year interval prior to the date of publication of this notice of competition); when determining it, the Committee, if necessary, should also take into account the specific features of a specific part of the Academic Recruitment Field and/or of the Academic Discipline;



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- b) impact of the overall scientific production, assessed through the criteria established for the National Scientific Qualifications (Abilitazioni Scientifiche Nazionali) referred to each level and each area, and of open science products associated with publications;
- c) for the evaluation of the scientific production of the candidates, the Committee employs, for those Academic Recruitment Fields in which they are significant, the following quantitative indicators, computed at the notice of competition deadline:
- total number and number in the ten most recent years, of articles in published journals included in the main international databases;
 - total number and number in the fifteen most recent years of citations to his/her own overall scientific production;
 - the overall Hirsch index (H-index).

2. Coordination of research groups and projects and research development in the "third mission" (Maximum score 15)

The Judging Committee will evaluate this field taking into consideration the following elements according to the following priority order:

- Coordination and management of the research groups, possibly with international relationships and collaborations, with explicit mention of the number and of the type of PhD and Post-Doc students of whom the candidate has been the academic supervisor;
- Scientific responsibility (Principal investigator) of Italian and International research projects, awarded through a peer-review process;
- Scientific responsibility of Italian and International research projects, ruled through partnership agreements with companies and/or public/private bodies which are leaders in their own sector;
- Outcomes obtained in the application and in the enhancement of research by technology transfer activity, in particular:
 - responsibility in terms of creation of start-ups and spin-offs, development, use and commercialization of patents/licenses, establishment of partnerships;
 - capability to attract funds;
 - capability to promote technology transfer activity;
 - capability to create social and economic impact.
- Outcomes obtained in the application and in the enhancement of research by Public Engagement activity, in particular:
 - sharing, dissemination and spreading of research contents and results to general public;

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- scientific collaboration with institutions and associations in line with the SDGs of the UN 2030 Agenda targets;
 - empowering, in terms of commitment to the application of sustainable development goals through urban outreach actions, i.e. active and experiential involvement of both the campus community and the local territory community.

The evaluation of the elements included in this section is done by considering specifically the importance that they take on, on the basis of the quality and the quantity of the research activity developed by each candidate.

3. National and international Reputation and supporting activity for the scientific community (Maximum score 15)

3.1 National and international Reputation (Maximum score 10)

The Judging Committee will evaluate this field taking into consideration the following elements with equal priority:

- Editorship of Journals with international reputation (in the role of Editor in Chief – EIC), editorship of book series, encyclopedias and essays of recognized prestige;
- Participation in the Editorial Board of Journals with international reputation (in the role of Associate Editor or equivalent), participation in the Editorial Board of book series, encyclopedias and essays of recognized prestige;
- Participation in international conferences, as a distinguished invited speaker;
- Official research and/or teaching and/or fellowship roles, positions as Scholar/ Visiting Professor in international highly qualified universities and research centers;
- Prizes and awards awarded to the candidate for his/her scientific activity and project activity in the Academic Recruitment Fields ("Settori Concorsuali"), where this is appropriate;
- Participation in Academies with international reputation in the research field of the candidate;

3.2 supporting activity for the scientific community (Maximum score 5)

The Judging Committee will evaluate this field taking into consideration the following elements with equal priority:

- Direction of highly qualified international institutions or research centers;
- Offices in the Governing bodies of national and international scientific societies;
- participation in the scientific committees of International Conferences;

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- Management and organization of exhibitions, compositions, drawings, design, hand-crafted items, prototypes, artwork and their projects, databases and software, thematic maps, for the Academic Recruitment Fields ("Settori Concorsuali"), where this is appropriate.

If the candidate has obtained the National Scientific Qualification ("Abilitazione Scientifica Nazionale") in more than one Academic Recruitment Field ("Settore Concorsuale") this must be considered a qualifying element, for properly evaluating the scientific reputation of the candidate.

The evaluation of the elements included in this section is done considering in particular the value that they take in relation to the quality and quantity of the research activity the candidate has been engaged in.

4. Teaching activity (Maximum score 20)

The Judging Committee will evaluate this field taking into consideration the following elements according to the following priority order:

- Formal responsibility of courses in Italian and/or foreign universities;
- Innovative teaching methodologies and projects (for example, the coordination of student teams, the management of Challenges, the preparation of activities valid for the final evaluation);
- Certified commitment to research and experimentation of innovative teaching methods (certificates of participation in specialization courses issued by universities and highly prestigious organizations or use of advanced teaching support equipment and technologies);
- Thesis work with a highly qualifying profile in scientific and professionalizing terms for the student or for inclusion in highly qualified business and organizational contexts, or for inclusion in projects of high scientific value at an international level.

5. Institutional offices and roles in Italian and foreign universities and/or public and private institutions (Maximum score 10)

The Judging Committee will evaluate this field taking into consideration the following elements with equal priority:

- Institutional offices and roles in the Governing bodies (Academic Senate, Board of Governors) of Italian and/or foreign universities;
- Institutional offices in teaching and research structures of Italian and foreign Universities;
- Management roles in Universities, as part of Faculty duties;
- Offices in the Governing bodies, Board of Governors, Scientific Advisory Boards of public and private institutions.



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The evaluation of the elements included in this section is done by considering specifically the importance that the institution offices and roles take on as significant contributions to the effective pursuit of the various missions and to the overall quality assurance of a university, as part of the activity carried out by the candidate.

Read and approved

The Committee:

President	Professor Gigliola STAFFILANI	_____
Member	Professor Szymon MALINOWSKI	_____
Member	Professor Luminita Daniela SELARU DANAILA	_____



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I, undersigned Professor Szymon Malinowski, Full professor at the University of warsaw declare to have participated in the drafting of the minutes n. 1 - *Evaluation Criteria* for the selection procedure for Full Professor, Academic Recruitment Field 09/A1 Aeronautical and Aerospace Engineering and Naval Architecture, Academic Discipline ING-IND/06 Fluid Dynamics Internal Code 26/23/P/O by Politecnico di Torino, through the online procedure. The related notice of competition is published on the Official Gazette n. 78 of 13/10/2023, IV Serie Speciale - Concorsi ed Esami. I also declare to approve the contents of the minutes.

Place and Date

Signed by Professor



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I, undersigned Professor Luminita Daniela SELARU DANAILA, Full professor at the University of Rouen Normandy declare to have participated in the drafting of the minutes n. 1 - *Evaluation Criteria* for the selection procedure for Full Professor, Academic Recruitment Field 09/A1 Aeronautical and Aerospace Engineering and Naval Architecture, Academic Discipline ING-IND/06 Fluid Dynamics Internal Code 26/23/P/O by Politecnico di Torino, through the online procedure. The related notice of competition is published on the Official Gazette n. 78 of 13/10/2023, IV Serie Speciale – Concorsi ed Esami. I also declare to approve the contents of the minutes.

Place and Date Mont Saint Aignan, the 8th of March 2024

Signed by Professor _____