



**POLITECNICO
DI TORINO**

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

Rector's Decree 124 of February 12th 2018

Academic Recruitment Field 08/A2 Sanitary and Environmental Engineering, Hydrocarbons and Underground Fluids, Safety and Protection Engineering

Internal Code 02/18/P/O

Annex A

Evaluation Criteria

(part of the Minutes 1)



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The Judging Commission of the selection procedure to cover two positions for Full professors (professori di I fascia), Academic Recruitment Field 08/A2 Sanitary and Environmental Engineering, Hydrocarbons and Underground Fluids, Safety and Protection Engineering, Internal Code 02/18/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 Academic fields:

1. Scientific Activity;
2. Coordination of research and technical transfer groups and projects;
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 with scientific and/or technological transfer aims.

1. SCIENTIFIC ACTIVITY (40/100)

1.1 The three main outcomes/results of the research activity

The Commission 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.

1.2 Publications submitted

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

The evaluation of the submitted documents is done on the basis of the following criteria, giving them equal weight:

- a) Coherence with the topics related to the specific Academic Recruitment Field 08/A2 Sanitary and Environmental Engineering, Hydrocarbons and Underground Fluids, Safety and Protection Engineering or with related interdisciplinary topics. For those candidates who hold the Italian scientific qualification in the same Academic Recruitment Field of the open position, if in the notice only the Academic Recruitment Field is specified, the disciplinary relationship with the topics related to the concerned Academic Recruitment Field is taken for granted and will be not object of evaluation by the Commission.



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- 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 distribution 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.

1.3 Overall Scientific production

The evaluation of the overall scientific production is done on the basis of the following criteria:

- a) number and typology of the submitted publications and their temporal distribution, with particular emphasis to those published within the ten-year interval prior to the date of publication of this notice of competition; when doing so, periods of maternity or other kind of leaves form different from study leaves, must be taken into account, following the Italian law in force;
- b) impact of the submitted publications within the specific Academic Recruitment Field 08/A2. When determining it, the Committee, if necessary, should also take into account the specific features of a specific part of an Academic Recruitment Field and/or of an Academic Discipline. For those candidates who hold the Italian scientific qualification in the same Academic Recruitment Field 08/A2 of the open position the disciplinary relationship with the topics related to the concerned Academic Recruitment Field is taken for granted and will be not object of evaluation by the Commission.
- c) impact of the overall scientific production, assessed through the criteria included in the article 6 of the Italian Ministerial Decree n. 120 of June 7 2016 (and possible following modifications) and in the related annexes C and D;
- d) for the evaluation of the scientific production of the candidates, the Commission employs, for those Academics 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).



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**2. COORDINATION OF RESEARCH AND TECHNOLOGY TRANSFER GROUPS AND PROJECTS
(15/100)**

The Judging Commission will evaluate this field taking into consideration the following elements giving them equal weight:

- Coordination and management of the research groups, possibly with international relationships and collaborations; 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 technology transfer Academic field, in terms of participation in start-ups and spin-offs, development, use and commercialization of patents/licenses.

The evaluation of the elements included in sections 2-5 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 (15/100)**

The Judging Commission will evaluate this field taking into consideration the following elements giving them equal weight by the Commission:

- 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.
- Direction of highly qualified international institutions or research centres.
- Official research and/or teaching and/or fellowship roles, positions as Scholar/ Visiting Professor in international highly qualified universities and research centres.
- Offices in the Governing bodies of national and international scientific societies.
- Participation in Academies with international reputation in the research field of the candidate.
- 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 international conferences, as a distinguished invited speaker; participation in the scientific committees of International Conferences.
- 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.



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The evaluation of the elements included in sections 2-5 is done by considering specifically the importance that they assume, on the basis of the quality and the quantity of the research activity developed by each candidate.

4. TEACHING ACTIVITY (20/100)

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

- Formal responsibility of Bachelor's (Laurea) and Master of Science's (Laurea Magistrale) degree courses in Italian and/or foreign universities.
- Formal responsibility of PhD courses in Italian and/or foreign universities.
- Formal responsibility of Specializing Master's courses and Life Learning courses in Italian and/or foreign universities in PhD courses.

As in the notice only the Academic Recruitment Field (Settore Concorsuale) 08/A2 is specified, the disciplinary significance and relevance of the teaching activity is not object of evaluation, for those candidates who hold the Italian scientific qualification in that field. In this case the Commission is only asked to evaluate the overall teaching experience carried out and acquired by the candidate.

5. Institutional offices and roles in Italian and foreign Universities and/or public and private institutions with scientific and/or technology transfer aims (10/100)

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

- 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, with scientific and technology transfer aims.

Read and approved

President

For the Commission: