UNIVERSITÀ DI TRENTO

Department of Industrial Engineering

Issued with Decree No. 173 of April 2nd 2026

CALL FOR APPLICATIONS FOR THE AWARD OF NO. 1 RESEARCH ASSIGNMENT

PURSUANT TO ART. 22-TER OF LAW NO. 240/2010

Article 1 - Description

A selection process based on qualifications and possible interview is hereby announced at the Department of Industrial Engineering of the University of Trento, pursuant to Art. 22-ter of Law No. 240 of 30 December 2010, for the award of no. 1 research assignment within the following research project(s).

Research Project(s):

FIS-2023-03684 "Structured neural network framework for modeling and control of autonomous systems" - Neu4mes - CUP E53C24003800001

Funding Source(s):

Funded by MUR – Ministry of University and Research

Research Project Supervisor (Tutor):

Prof. Gastone Pietro Rosati Papini

Scientific-Disciplinary Group (GSD):

09/IIND-02

One or more Scientific-Disciplinary Sectors (within the aforementioned GSD):

IIND-02/A

Affiliation Department/Centre:

Department of Industrial Engineering

Location(s) where the activity will be carried out:

Department of Industrial Engineering

Title of the activity:

Modular Motion Planner for Autonomous Agents based on Model-Strctured Neural Network

Object of the activity:

Development and testing of a modular motion planner based on optimized motion primitives and defined through structured neural networks. In the first part of the internship, the candidate will develop the planner, and in the second part, the candidate will test the developed planner on different mobile platforms.

The scientific-professional profile required for carrying out the research project is described in the following Art. 2 - Requirements for participation in the selection.

Contract Duration:

12 months

Latest Commencement Date of the Contract:

May 1st 2026

Gross Amount:

Euros 22.500,00 (Euros twenty-two thousand five hundred/00) for the entire duration of the contract.

Article 2 - Requirements for participation in the selection

2.1. Italian or foreign candidates, who possess the requirements set out in letters A) and B) of this article may participate in the selection.

2.2. The requirements set out in this call must be possessed by the deadline for submitting the application, unless otherwise specified.

2.3. Exclusion from the selection, due to failure to meet the general and specific requirements indicated in the call, is ordered by a reasoned decree of the Director and notified to the interested party. Exclusion will not occur if the possession of admission requirements can be inferred from the context of the documentation submitted.

A. General Requirements

2.4. Italian or foreign candidates may participate in the selection if they possess, by the deadline of the call indicated in the following Art. 3.1, a Master's Degree or single-cycle degree obtained in Italy, or an equivalent qualification obtained abroad, no more than six years before the deadline of the call indicated in the following Art. 2.9. letter *i*.

2.5. For participation in the selection, the enjoyment of civil and political rights is required, under penalty of exclusion, and, only with reference to Italian citizens subject to compulsory military service, being in a regular position regarding this obligation.

2.6. The following are not allowed to participate in the selection:

a) tenured staff, employed indefinitely, of universities, public research bodies, and institutions whose scientific specialization diploma has been recognized as equivalent to the title of PhD pursuant to Article 74, fourth paragraph, of Presidential Decree (D.P.R.) 11 July 1980, no. 382;

b) those who have benefited from contracts pursuant to Article 24 of Law 240 of 2010;

c) those who have a relationship of kinship or affinity up to and including the 4th degree with a professor or a researcher belonging to the academic structure conferring the appointment, or with the Rector/Rector's delegate, the General Director, or a member of the Board of Directors.

2.7. Candidates, who have been criminally convicted for offences referred to in Article 85, first paragraph, letter a) of the Consolidated Act (T.U.) approved with Presidential Decree (D.P.R.) 10.1.1957 no. 3, may be not admitted to the selection, subject to autonomous assessment by the administration.

2.8. Citizens of a country other than those of the European Union, or with which the Union has stipulated free movement agreements, must have requested or be in possession, by the date of signing the contract, of a suitable and regular residence permit covering the entire duration of the research appointment, under penalty of forfeiture of the right to sign the same.

B. Specific Requirements

2.9. For participation in the selection, the possession of the following specific requirements is required, under penalty of exclusion:

i. Master's Degree or single-cycle academic qualification in Industrial Engineering obtained in Italy, or an analogous academic qualification obtained abroad recognized as equivalent to the aforementioned degree solely for the purpose of admission to the selection by the Examining Committee, no more than six years before the deadline of the call;

ii. scientific-professional curriculum suitable for assisting in the conduct of research and innovation activities;

iii. level of knowledge of the English language: good.

Article 3 - Application for Admission

3.1. Interested parties must submit an application for admission exclusively using the online compilation and submission method prepared for this purpose, by accessing the page: http://www.unitn.it/apply/inc-ric, by and **no later than 12:00 PM (noon) on April 22nd 2026.**

3.2. Please note that access to Apply for submitting the application for all those in possession of an Italian tax code and a valid Italian identification document and who do not already have a Unitn account is only permitted via SPID (Sistema Pubblico di Identità Digitale - Public Digital Identity System).

3.3. For information and clarifications, please contact the Research Personnel Selection Office of the University of Trento, via Alla Cascata, 56/C, Palazzina D, 38123, Trento; email address: selezioni.ricerca@unitn.it; telephone numbers: 0461-281914/281969/281620/281157/5309.

3.4. In the application, the candidate shall declare under his/her own responsibility:

a) his/her name and surname (as reported in the attached identity document), date and place of birth, citizenship, residence, domicile elected for the purpose of evaluation, and the email address to which communications relating to the selection procedure should be received;

b) that he/she is in possession of all the requirements indicated in Art. 2 of the call, is aware of all the limitations, including the overall duration limits referred to in Art. 9 of this call, and is not in any of the situations of incompatibility provided for in Art. 12 of the call itself;

c) to undertake to promptly communicate any change in his/her residence, elected domicile and/or contact details indicated in the application for admission.

3.5. The Administration assumes no responsibility in the event of loss of communications resulting from inaccurate indications by the applicant or from failure or late communication of the change of his/her contact details, nor for any postal or electronic mail disruptions not attributable to the Administration itself.

3.6. The interested party shall also declare:

a) criminal convictions;

b) pending criminal proceedings and trials;

c) situations that determine an irregular position regarding military service obligations (only for Italian citizens subject to compulsory military service).

3.7. Candidates shall attach the following documents to their application:

a) the resume in PDF format;

b) photocopy of a valid identity card or other identification document;

c) in case of a Master's Degree / single-cycle diploma obtained abroad, the relevant certificate or other document proving the passing of the final exam of the relevant course of study issued by the foreign University or institution where the qualification was obtained;

d) any publications in PDF format;

e) any other document, or substitute declaration thereof, certifying the possession of any further qualifications deemed useful for the purpose of evaluation;

f) the research program consistent with the object of the research activity.

3.8. With regard to Art. 3.7 letter d), the following is specified:

- publications and, in particular, scientific articles (offprints), are considered valid for the purpose of evaluation provided they bear the indications relating to the author, title of the work, place of publication and, if applicable, number of the journal, encyclopedia or treatise from which they are taken;

- for accepted but not yet published publications, documentation proving acceptance must be attached.

3.9. In application of Art. 33 of Presidential Decree (D.P.R.) 28.11.00, no. 445, documents drafted in a foreign language other than English, French, German, and Spanish must be accompanied by a translation into Italian or English certified as conforming to the foreign text, prepared by the competent Diplomatic or Consular Representation, or by an official translator.

Article 4 - Constitution of the Examining Committee

4.1. The Examining Committee is appointed by the Director of the Department/Centre.

4.2. The Committee is composed of three members, ensuring, as a rule, adequate gender representation among professors and researchers with research experience on the topics covered by the call. The Committee may avail itself, without additional costs, of highly qualified Italian or foreign expert reviewers external to the University.

4.3. The Committee may use telematic tools for collegiate work in all phases of the evaluation procedure.

Article 5 - Methods for conducting the comparative evaluation procedures

5.1. The selection is carried out through the comparative evaluation of the candidates and is aimed at assessing the candidates' possession of a scientific-professional curriculum suitable for carrying out the activity subject to the research appointment. For the purpose of admission to the procedure, the Committee evaluates the equivalence of qualifications obtained abroad to the Master's Degree/single-cycle degree required by the call.

5.2. The selection is based on qualifications and possible interview. The Committee may decide to conduct the oral interview in English and/or in other languages relevant to the research.

5.3. The evaluation criteria are predetermined by the Committee itself, in compliance with any preference criteria indicated by the call.

5.4. The Committee, after adequate evaluation, proceeds collegially to express a reasoned judgment and to assign the relative score for each individual evaluation criterion.

5.5. The Committee assigns a maximum of 70 points to qualifications and a maximum of 30 points to the possible interview, for a total overall maximum of 100 points if the interview is conducted.

5.6. Candidates who have achieved a score of at least 49 points out of 70 in the evaluation of qualifications are admitted to the interview. The interview is considered passed with a score of at least 21 points out of 30.

5.7. Should the Committee intend to conduct an interview, the list of candidates admitted to the interview and the calendar indicating the date, time, place, or online modality of the interviews will be announced at least 5 days prior to their conduct with a notice published on the Internet portal: https://lavoraconnoi.unitn.it/incarichi-ricerca?field_stato_value=2. Candidates, shall present a valid identification document at the interview.

5.8. The publication of the notice on the University portal is equivalent to notification according to law for the interview convocation (if held). The absence of the candidate will be considered as a renunciation of the comparative evaluation, whatever the cause.

5.9. The Evaluation Committee draws up minutes of the operations carried out in each phase of the evaluation procedure. The Committee draws up a final merit ranking at the conclusion of the evaluation phase of qualifications and the oral interview, given by the summation of the scores achieved by the candidates in each phase.

5.10. In case of equal scores, preference is given to the younger candidate pursuant to Law 127/1997 (Art. 3, paragraph 7).

5.11. The selection procedure concludes with the formulation of the final merit ranking, which is published on the internet portal: https://lavoraconnoi.unitn.it/incarichi-ricerca?field_stato_value=2.

Article 6 - Conclusion of the selection procedure and award of the research appointment

6.1. The Director of the interested academic structure, by his/her own decree, approves the selection acts and approves the award of the research appointment based on the merit ranking referred to in Art. 5.11. The candidate successfully placed in the ranking will be given written communication of the award of the research appointment.

6.2. In case of withdrawal by the interested party, received after the award, the Director of the interested academic structure approves the award of the research appointment to the subsequent candidate in the ranking.

6.3. The validity of the merit ranking referred to in Art. 5.11. ceases after 12 months from the approval of the selection acts.

Article 7 - Submission of documents for the activation of the research appointment

7.1. For the preparation of the research appointment, the winner must submit:

i. the declaration made pursuant to Art. 46 of Presidential Decree (D.P.R.) 445/2000 certifying the contracts benefited from pursuant to Artt. 22, 22-bis, 22-ter and 24 of Law 240/2010 and that he/she is not in any of the situations of incompatibility provided for in Art. 12 of the call;

ii. a plain copy of the certificate of achievement of the Master's Degree/single-cycle degree (for those who obtained the qualification abroad) or self-declaration relating to the achievement of the Master's Degree/single-cycle degree (for those who obtained the qualification in Italy);

iii. a copy of a valid residence permit for the Italian territory or documentation certifying the initiation of the procedure for the issuance of the residence permit for non-EU citizens.

Article 8 - Employment Relationship

8.1. The holder of the research appointment is required to carry out the activities subject to the appointment and to fulfill the obligations established by the contract and by the Single Regulation for the award of research contracts, post-doc appointments, and research appointments pursuant to Arts. 22, 22-bis and 22-ter of Law 240/2010 issued with Rectoral Decree (DR) no. 1161 of 30 September 2025, under penalty of forfeiture of the same.

The duties of the appointment holder, determined by the individual contract, are carried out under the direction of the Research Supervisor (Tutor), who periodically verifies the activity carried out. The assigned duties must include a specific research activity. The holder of the research appointment is required to present a final report to the Department/Centre Council on the activity carried out and the results achieved, validated by the research supervisor. The holder of the research appointment articulates the work performance in agreement with the Research Supervisor.

8.2. For holders of research appointments in the medical area, the performance of assistance activities may be foreseen in relation to the needs of the research project, with methods provided for by specific agreements between the University and the healthcare structures involved.

8.3. Without prejudice to the obligation of full fulfillment of the duties provided for by the contract, the research appointee may request special authorization from the head of the reference academic structure, subject to the favorable opinion of his/her tutor, to carry out further limited occasional external activities or to attend a university Master's program with a scholarship, provided that the latter do not preclude the regular conduct of the research and are in any case subject to the incompatibilities provided for PhD students.

8.4. Notwithstanding all the above, the holder of a research appointment may not, in any case, carry out activities that could lead to a situation of conflict of interest with the activities of the University of Trento.

Article 9 – Extension, Renewal and Duration of the research appointment

9.1. The research appointment may be renewed or extended until the maximum overall duration referred to in the following Art. 9.2 is reached and in compliance with the overall duration limit referred to in the following Art. 9.4. The renewal cannot have a duration shorter than one year.

9.2. The overall duration of research appointments, also awarded by different institutions, cannot exceed three years, even if not continuous.

9.3. The possibility of derogating from the maximum limit referred to in the preceding paragraph is reserved solely for the purpose of implementing specific research funding programs of the European Union within the framework of the actions linked to the Marie Sklodowska-Curie program (MSCA).

9.4. The overall duration of the relationships established by the same subject, pursuant to Artt. 22, 22 bis, 22 ter and 24 of Law 240 of 2010, even with different universities, state, non-state or online, with High Artistic, Musical and Choreutic Education institutions, with institutions whose scientific specialization diploma has been recognized as equivalent to the title of Dottore di Ricerca (PhD) pursuant to Article 74, fourth paragraph, of Presidential Decree (D.P.R.) 11 July 1980, no. 382, and with public research bodies, cannot in any case exceed eleven years, even if not continuous.

9.5. For the purpose of calculating the terms referred to in Arts. 9, paragraphs 2 and 4, periods spent on leave for maternity or paternity or for health reasons according to current legislation are not taken into consideration.

Article 10 – Termination and Withdrawal

10.1. Serious and relevant non-fulfillment pursuant to Art. 1460 of the Italian Civil Code (C.C.) by the holder of the research appointment reported with reasons by the Research Supervisor (Tutor) to the Director of the Structure constitutes a cause for termination of the relationship.

10.2. In case of withdrawal from the contract, the holder of the research appointment is required to give notice of not less than 30 days.

Article 11 - Economic, tax, social security, pension and insurance treatment

11.1. The holder of the research appointment referred to in this call is entitled, for the entire duration of the relationship, to the gross economic compensation established in Art. 1 of this call.

11.2. The economic compensation is paid in arrears in monthly installments, unless suspended following a reasoned report by the tutor.

11.3. At the end of the research, the holder of the research appointment is required to draw up a final report, validated by the supervisor (tutor) and approved by the academic structure's body, which is responsible for evaluating the activity carried out and archiving the report itself.

11.4. The provisions of Article 4 of Law 13 August 1984, no. 476 apply to the research appointments referred to in this article, concerning tax matters; the provisions of Article 2, paragraphs 26 and following, of Law 8 August 1995, no. 335, concerning pension matters; the provisions of the Decree of the Minister of Labour and Social Security 12 July 2007, published in the Official Gazette no. 247 of 23 October 2007, concerning compulsory abstention for maternity; and Article 1, paragraph 788, of Law 27 December 2006, no. 296, concerning sick leave. During the period of compulsory abstention for maternity, the allowance paid by the National Social Security Institute (INPS) pursuant to Article 5 of the aforementioned Decree of 12 July 2007 is supplemented by the University up to the full amount of the remuneration for the research appointment.

11.5. The University provides insurance coverage for risks arising from accidents and civil liability.

Article 12 – Incompatibilities and Prohibition of Accumulation

12.1. Research appointments are incompatible with any other subordinate employment relationship, even part-time or fixed-term, with public or private entities, and require the employee in service with public administrations to be placed on leave without pay.

12.2. The research appointment is not compatible with attending degree courses, specialist or Master's Degree courses, doctoral degrees or specialization courses in the medical area in Italy or abroad, without prejudice to the possibility of implementing specific research funding programs of the European Union within the framework of the actions linked to the Marie Sklodowska-Curie program (MSCA).

12.3. Research appointments cannot be accumulated with PhD scholarships or other scholarships, awarded for any reason by national or foreign institutions, except when these are aimed at international mobility for research purposes.

12.4. Research appointments cannot be accumulated with research contracts pursuant to Art. 22, Law 240/2010, post-doc appointments pursuant to Art. 22 bis, Law 240/2010, and fixed-term researcher contracts pursuant to Art. 24, Law 240/2010.

12.5. Research appointments do not give rise to a right of access to the roles of universities, public research bodies, and institutions whose scientific specialization diploma has been recognized as equivalent to the title of Dottore di Ricerca (PhD) pursuant to Article 74, fourth paragraph, of Presidential Decree (D.P.R.) 11 July 1980, no. 382, nor can they be counted for the purposes referred to in Article 20 of Legislative Decree (D. Lgs.) 25 May 2017, no. 75.

Article 13 - Intellectual Property

13.1. The intellectual property rights on the intangible assets created or otherwise obtained by the holder of the research appointment in the course of carrying out the research activity belong to the University, as provided for by art. 65 of the Industrial Property Code (Legislative Decree 10 February 2005, n.30, as amended by Law 24 July 2023, n.102 and subsequent modifications and integrations).

13.2. In the course of carrying out research activities financed, in whole or in part, by private or public entities other than the University, intellectual property rights over intangible assets belong to the University, unless otherwise stated in other University regulations or in the contract with the funding entity.

13.3. The intellectual property rights on intangible assets created or otherwise obtained by the holder of the research appointment in the course of the research activity also belong to the University when the creation of a

software or database is the result of the performance of the tasks of the holder of the research appointment as part of the staff of the University, according to the provisions of current copyright law.

13.4. In any case, the holder of the research appointment has the inalienable, unwaivable and imprescriptible moral right to be recognized inventor or author of the intangible asset realized or otherwise achieved.

Article 14 - Information on the processing of personal data carried out in the context of competitive and selective procedure

The EU Regulation 2016/679 "General Regulation on the protection of personal data" (hereinafter "GDPR") establishes the right of every person to the protection of his or her personal data.

In accordance with art. 13 and 14 of the EU Regulation 2016/679 the University of Trento intends to provide participants in competitive/ selective procedures banked by the University (hereinafter "interested"), the following information.

Specifically, it includes all calls for tenders aimed at the recruitment of technical-administrative staff, teachers and researchers, both fixed-term and indefinite, selections for contract lecturers, research fellows, scholarship holders, collaborators in various capacities.

14.1. Data Controller

The data controller is the University of Trento, via Calepina n. 14, 38122 Trento (TN); email: ateneo@unitn.it; ateneo@pec.unitn.it.

14.2. Contact details of the Data Protection Officer

The Data Protection Officer, who can be contacted for information regarding your personal data, can be contacted at the following email address: rpd@unitn.it

14.3. Purpose of processing and legal basis

The University of Trento carries out the processing of personal data, including special and judicial data, in the execution of its tasks of public interest as well as for the fulfilment of legal obligations exclusively for the following purposes: - management of competitive/selective procedures (art. 6, para. 1, lett. e) GDPR); - provision of aids and additional time for the performance of tests (art. 9, par.2, lett. g) GDPR); - checks on the veracity of self-certifications made pursuant to DPR 445/2000 (art. 6, para. 1, lett. c) and art. 10 GDPR); - complete the recruitment procedure, with related mandatory communications; - establish, exercise or defend a right in court (art. 9, para.2, lett. f) GDPR; art. 6, par. 1, lett. e) and 10 GDPR).

14.4. Category of data processed

Personal data: name and surname, date and place of birth, tax code, nationality and citizenship, municipality of registration in the electoral lists, contact details (telephone number, address of residence and/or domicile, email address); qualifications, data suitable for detecting knowledge, skills, abilities and competences in the educational and professional field; special data: data relating to the health of oneself and/or one's family members, also deductible from the possible titles of preference; Judicial data: criminal convictions and offences.

14.5. Source of data

Personal data are collected from both the data subjects and other sources, such as public administrations and criminal records.

14.6. Nature of the provision of data

The provision of personal data is indispensable for participation in competitive/selective procedures and failure to provide it precludes participation. The provision of personal data to benefit from additional aids and time during the course of tests is optional and failure to provide determines the impossibility of the Administration to guarantee them.

14.7. Methods of processing

The processing of personal data is carried out on paper, computerized and/ or telematic by personnel authorized to process data in relation to the tasks and duties assigned and in compliance with the principles of lawfulness, correctness, transparency, adequacy, relevance, non-excess and confidentiality (Art. 5, para.1, GDPR). No profiling or automated decisions are made.

14.8. Categories of recipients

The data will be communicated, in addition to the staff of the University facilities involved in the implementation of the above-mentioned purpose, to other public and private entities for the purposes indicated above. The subjects who, in the scope of the provision of services necessary for the pursuit of the above-mentioned purposes, should process personal data of the interested parties on behalf of the University, will be designated as Data Processors pursuant to art. 28 GDPR.

Apart from these cases, personal data may be communicated to third parties only in the event of compliance with a legal obligation and/ or a measure of the judicial authority.

Some personal data may be published in the appropriate section of the University portal in compliance with the obligations provided for by current legislation.

If, within the scope of the aforementioned purposes, personal data is transferred to non-EU countries, the transfer of such data will be carried out within the limits and under the conditions set out in articles. 44 et seq. of the GDPR, or in the presence of an adequacy decision of the European Commission and, in its absence, adequate guarantees.

14.9. Data retention period

Personal data will be kept for the period necessary to achieve the above-mentioned purpose and in any case for the time necessary to comply with legal obligations. In any case, they will be kept for the time established by the current legislation and/or by the University's regulations on the management and preservation of documentation produced by the University in carrying out its institutional activity.

14.10. Rights of data subjects

At any time, the data subjects may exercise against the Controller the rights set forth in art. 15 et seq. of the GDPR:

• access to your personal data and other information as specified in Art. 15 of the GDPR;

• rectification of your personal data if it is incorrect and/or their integration if they are incomplete pursuant to art. 16 of the GDPR;

• deletion of personal data, except in cases where the University is obliged to store them pursuant to art. 17, para. 3 of the GDPR;

• limitation of processing in the cases indicated pursuant to Art. 18 of the GDPR:

• objection to the processing of personal data concerning them in cases where this is permitted pursuant to Art. 21 of the GDPR.

To exercise your rights, you can use the appropriate form on the "Privacy and protection of personal data" page of the Ateneo portal and send it to the Owner at the addresses indicated above. Data subjects who believe that the processing of their data takes place in violation of the GDPR, have the right under art. 77 of the GDPR to submit a complaint to the Supervisory Authority for the protection of personal data or to apply to the appropriate courts.

Article 15 - Person responsible for the procedure

15.1. Responsible for the comparative evaluation process of this call is Dr. Mirella Collini - Head of Research Management Division - tel. 0461 - 281634 - e-mail: selezioni.ricerca@unitn.it

Article 16 - Final rules

16.1. The Italian version of this call is the only authentic one.

16.2. For anything not expressly provided for in this call, reference is made to the regulations set out in Chapter III of the Single Regulation for the award of research contracts, post-doc appointments, and research appointments pursuant to Arts. 22, 22 bis and 22 ter of Law 240/2010.

The Director of the Department of Industrial Engineering

Prof. Alessandro Pegoretti

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