



T2M 1st CALL FOR PROPOSALS



UNIVERSITÀ
DEGLI STUDI
DI TORINO





T2M 1st CALL FOR PROPOSALS

Table of contents

1. Getting started: T2M programme	3
2. Deadline	3
3. Why apply for a T2M Fellowship?	4
4. Beneficiaries: who can apply?	5
Ineligibility and incompatibility with other funding	5
5. How to apply?	6
6. Selection and evaluation criteria	6
Request of redress	10
7. Ethical principles	10
8. Application documents/links	11
9. Processing of personal data	11
10. Obligation of the fellow	12
11. Confidentiality and intellectual property	12
Annex I – Research areas	13
LIFE SCIENCES	13
SCIENCES	17
SOCIO – ECONOMIC SCIENCES	19
HUMANITIES	21



1. Getting started: T2M programme

2020 researchers: Train To Move (T2M) is a new transnational mobility fellowship programme promoted by the Università degli Studi di Torino (UNITO) with the active support of the banking foundation Compagnia di San Paolo (CSP). T2M it is cofounded within the FP7 People specific programme – Cofund Actions.

With the general aim of contributing to foster excellent research in Europe to face the challenges of contemporary society, it is designed to create favourable conditions for transnational mobility of high skilled researchers and to promote transectoral mobility between public/academy and industrial/private sector.

T2M is exploited through 2 calls for proposals. The present call for proposals will provide 14 fellowships addressed to experienced researchers (please check for eligibility criteria in par.6 Selection and evaluation criteria). A second call will be issued in March 2015.

T2M provides incoming fellowships to researchers, who at the time of the call deadline, have up to 7 years since PhD or have a track record in full time equivalent research activities of 4-10 years in the last ten years since MSc. Mobility can be from EU Member or Associated Countries or from other Third Countries. Fellowships will last 24 months.

Fellows will be hosted at UNITO, one of the most prestigious Italian universities. UNITO will provide fellows with access to research groups working in 27 highly equipped hosting departments carrying out research in all research fields, except Architecture and Engineering. Fellows will furthermore benefit from the vivid regional context where the University is placed and from the long lasting collaborations amongst the public and private stakeholders.

T2M proposals will contribute to increase the competitiveness of the regional context, enhancing its international profile. To apply, applicants will submit proposals in one of the research areas proposed by UNITO departments and described in Annex I of this call for proposal.

In order to ease the integration of fellows and to make the experience a win win game, research areas address a broad scientific field of research in which proposals can be developed at the hosting department.

2. Deadline

The deadline for this first call for applications is **5 May 2014 h. 12.00** (Italian time).

Applications must be submitted through **the online application tool** available in the intranet section of website of the programme www.train2move.unito.it

Details on the application procedure are provided in the Application Package Section (Guides for Applicants).



3. Why apply for a T2M Fellowship?

T2M programme is a great opportunity to acquire international experience while boosting research and career development skills.

UNITO is amongst the oldest universities in Italy and will provide fellows with **27** highly equipped **hosting departments**. The hosting departments cover all scientific research disciplines, except Engineering and Architecture and offer 1,329 total research labs and 34 open air labs, including greenhouses, botanic garden, fields, 70 university libraries, with a total of 2,000,000 volumes, 100,000 antique volumes and 28,000 periodicals. Specific descriptions of hosting departments' research interests and available infrastructures are to be found in the dedicated section on the programme web site (Section: Hosting Departments).

If you are among the selected fellows, you will be offered the best **employment conditions** available according to the current Italian Law on Research and Education. The contract scheme provided for T2M fellows is the **Research Grant** ("Assegno di Ricerca" - art 22 L. 30/12/2010, n. 240) with a duration of **24 month**.

The Research Grant includes social security coverage and social benefits: contribution to pension funds ("gestione separata INPS"), health and accident insurance (through an insurance system adopted by UNITO), parental leave (5-months INPS allowances)¹.

Each research contract will include the following categories of expenses:

- **living allowance**: corresponding to the gross salary paid in monthly instalments to fellows, inclusive of all social security coverage as previously specified;
- **mobility and travel allowances**: consisting in a monthly payment of a fixed amount, to cover fellows' expenses linked to their mobility (i.e. relocation, family expenses, travel expenses, language courses etc.)
- **contribution to research costs** a flat rate covering expenses necessary for carrying out research projects. This contribution covers consumables, participation in conferences, training courses, travels and publications etc.

Fellow salary /year	Incoming Fellowship
Living Allowance (inclusive of any charges)	28,500 €
Mobility and Travel Allowance	9,000 €
TOTAL GROSS SALARY (inclusive of any charges)	37,500 €
Contributions to research costs/year	8,000 €

Becoming a T2M fellow will allow you to attend a unique **training on soft skills**.

¹ Parental leave is included according to the National Law.



T2M programme aims at strengthening the development of T2M fellows' curricula by adding on complementary competences through a unique course on soft skills. Attending the training will contribute to the development of your personal transferable skills and to make you prepared for both public and private sectors. This training will foster a concrete link to the professional labour market. You are expected to spend 20% of your time in attending this training. The complementary training programme is available in the home page (Section About T2M).

T2M will provide a **personalized support** in professional development and career advice.

Your Scientific Supervisor in hosting department will support you in drawing up your **Personal Career Development Plan (PCDP)**. The PCDP will help you in organizing your work, according to long and short term research objectives. It will also contribute to the development of your independent thinking, being a useful tool for monitoring project and career progress.

4. Beneficiaries: who can apply?

T2M is open to researchers of **any nationality**, provided however that at time of the deadline for submission of proposals, **they must not have resided or carried out their main activity (work, studies, etc.) in Italy for more than 12 months in the 3 years immediately prior to the closing date for submitting proposals**. Short stays such as holidays are not taken into account.

If you are a potential T2M fellow, on the date of the relevant deadline for submission of proposals, **you must either:**

- 1. be in possession of a PhD from no more than 7 years or**
- 2. have at least a track record of 4 to 10 years of full time equivalent research experience** after MSc degree in the last ten years.

T2M is a flexible programme and takes into account the specific situation of each fellow candidate including **career breaks**. Experienced researchers applying after a career break due to work or personal reasons, are eligible as long as they will be able to demonstrate at least 4 consecutive years of full time commitment in research in the last 10 years. Call deadline is the reference date to be considered.

Ineligibility and incompatibility with other funding

Coherently with the aim of T2M programme of supporting the most promising young experienced researchers in their career development, permanently employed researchers of universities and research centres are considered ineligible for this competition.

A candidate is not allowed to apply for more than one fellowship.



According to University regulation for “Assegni di Ricerca”, the fellowship cannot be held simultaneously to other fellowships of any kind, included other EU or Marie Curie grants, except for those stated in the regulation of the University.

Aggregation of income from working activities, including part-time work, is not accepted.

5. How to apply?

If you are interested in the application, you must register in the web site of the programme (www.train2move.it).

In order to create a new account, you will have to enter your profile data (name and contact details) in the log in section on the home page. After registration, you will receive a link on your email account to confirm your registration. If you don't receive the mail in 24 hours please contact train2move@unito.it Once you make the log in, you will enter the intranet section (for more details please see Guide For Applicants).

In the intranet section, you will be asked to fill in the Eligibility Section. After that you will be able to download the necessary templates to prepare your proposal (Download Documents section) and submit you proposal in the Apply Section.

More details about the Application procedure are provided in the Guide for Applicants.

Only electronically submitted applications will be eligible. Only applications submitted by the call deadline will be evaluated. Late submissions will not be considered.

If necessary, you can resubmit your proposal as many times you need before the deadline. In such a case, only the last version submitted will be evaluated.

Applications shall be only written in English.

All information relevant to drawing up the project and regarding the submission are available on the T2M website www.train2move.unito.it Section Application Package / Guide for Applicants.

6. Selection and evaluation criteria

The selection process consists of the three stages described below and it is expected to last about 20 weeks after the closure of the call:

- 1. Eligibility check**
- 2. Evaluation of CV and proposal**
- 3. Interview with the Scientific Panel and final decision**

Each phase must be passed successfully to proceed on to the next.



Stage I: eligibility check

At the closure of the call, all applications received will be checked against the eligibility conditions stated in paragraph 2 of this call for proposals. The eligibility is checked on the basis of the information provided by the applicant in the proposal. The Management Team of T2M Programme will conduct the eligibility check.

Proposals which will meet **all of the following eligibility criteria** will be included in the evaluation:

- the proposal is received **within the deadline date**;
- the proposal is **complete**, i.e. administrative forms, proposal text, required documents (PhD certificate, certificate of years dedicated to research etc.) are submitted;
- the proposal respects the requested format (page limits, layout);
- **rule of mobility and eligibility criteria of research activities** are satisfied.

Rule of mobility: at the time of the call deadline, researchers shall not have resided or carried out their main activity (work, studies, etc.) in Italy for more than 12 months in the 3 years immediately prior to the reference date. Compulsory national service and/or short stays such as holidays are not taken into account.

Eligibility criteria of research activities: Experienced researchers shall, at the time of the relevant deadline for submission of proposals, have up to 7 years of research experience after PhD completion, or alternatively be in possession of a track record of full-time equivalent research experience of 4 to 10 years in research after MSc degree.

Full-time equivalent research experience is measured from the date when a researcher obtained the degree which would formally entitle him or her to embark on a doctorate, either in the country in which the degree was obtained or in the country in which the researcher is recruited or seconded, irrespective of whether or not a doctorate is or was ever envisaged. Experienced researchers applying after a career break due to work or personal reasons are requested to demonstrate at least 4 consecutive years of full time commitment in research in the last 10 years. They have to provide 3 letters of reference.

The results of the eligibility check are expected to be published on the restricted area **2 weeks after** the closure of the call. Non-eligible applicants will be informed by email **within 10 days from the CFP deadline**

If, at a later stage, an eligibility criterion is found not to be fulfilled (for example, due to incorrect or misleading information), the proposal will be declared ineligible.



Stage II: evaluation of CV and proposal

The evaluation of applications is entrusted to the European Science Foundation (ESF) According to peer review service, the ESF appoints a **Scientific Selection Committee**, made of international expert evaluators. The Scientific Selection Committee is organized in 4 panels, according to specific competences of each evaluator. In each panel, evaluators will independently evaluate submitted applications and will then meet to find a consensus.

Applications will be evaluated on the basis of **4 criteria**: researcher's CV, S&T quality of the proposal, Implementation and Impact. Specific information on criteria is available in the Guide for Applicants.

An overall threshold of 12 will be applied. Applicants whose proposals fail to meet the overall threshold or any of the individual thresholds (3/5) will not be admitted to the stage 3 of the evaluation (interview with the Scientific Panel).

In case of proposals with the same score, priority to evaluation criteria will be given as follow:

Evaluation	Priority in case of <i>ex aequo</i>
Criterion 1. Researcher' CV	1
Criterion 2. S&T quality	3
Criterion 3. Implementation	4
Criterion 4. Impact	2

All applicants will receive feedback on the outcome of the peer-review evaluation of their application with marks and comments by the reviewers.

The results are expected to be published on the website/intranet **within 2 months** after the CFP deadline

In any case, the number of candidates invited to stage III will not exceed three times the number of available positions.

Stage III: applicant interview

If you will be among the applicants admitted to III stage, you will be invited for video- or telephone-conference interview. Interviews are expected to be held **within 3 months after CFP deadline**, will be held in English and will be computer-based via Skype according to the instructions given by UNITO.



If this is the case, you will have to present yourself and your project to the 2 co-chairs of the panel and to a scientific delegate of the associated hosting department of the research area chosen.

At this stage, both researcher and proposal will be considered. Evaluation criteria that will apply during interviews are available in the Guide For Applicants.

The final decision will take into account the results of interviews together with the outcome of the second stage evaluation. The co-chairs of panels will draw a ranking list of candidates for each panel. After that, they will physically meet in a consensus meeting in order to approve a **unique final ranking list of 14 fellows**. A reserve list will also be provided.

These results are expected to be published on the web site **within 3 months after the deadline**.

All applicants will receive an evaluation report based on the outcome of the evaluation.

Acceptance of fellowship and appointment

Successful candidates will receive via e-mail a notification of award of the fellowship.

Fellowship acceptance should be communicated by an acceptance letter sent by email to train2move@unito.it (subject: fellowship acceptance) **within 15 days** after receiving the notification.

In the acceptance letter, successful candidates must explicitly declare that they shall not benefit, throughout the period of the fellowship, from other scholarships or similar grants, that they shall not receive other salaries, and that they commit to working full-time and exclusively on the funded project. Should the University not receive this letter in the given period, the candidate will be deemed to have refused the scholarship.

For all fellows, whether nationals from European or Associated countries, or from all other Third countries, appointment will have to start no later than 6 months after receiving the e-mail communication about the success of their application. Exceptions could be accepted as far as they do not compromise the full accomplishment of the fellowship period, especially for the 2nd CFP.

Extensions could be allowed in case of projects requiring an ethics review or in case of prolonged visa procedures. If the candidate does not sign the contract within this period without justified reason, she/he will surrender her/his entitlement to the fellowship.



Request of redress

If you are a potential T2M fellow, you can apply for a redress in the first two stages of selection process. Detailed information on redress procedures are available in Guide For Applicants.

7. Ethical principles

If your proposal involves any ethic issues, you will be required to fill in the **Ethics Issues Table** at the end of project proposal template.

In this table, you must clearly point out if following issues are concerned within your research project:

- Research on Human Embryonic Stem Cell
- Informed consent
- Privacy and Data protection
- Research on Animals
- Research Involving Developing Countries
- Dual Use.

Ethics Reviews will automatically occur if your proposal includes any of the following:

- interventions on human beings
- the use of human embryonic stem cells (hESC)
- the use of non-human primates.

In the specific case of projects involving hESCs, the following procedure applies:

The scientific experts must mention in their evaluation report, if the use of hESCs is justified and necessary for the success of the project. If the project is suggested for funding, the UNITO managers contacts immediately the REA project officer, who will forward the research proposal and the scientific evaluation reports for the European Commission (EC) ethics review; In addition, the REA will ask the PEOPLE Programme Committee for its opinion. The research using hESCs may not start until the proposal received the approval of the EC ethics review and the PEOPLE Programme Committee, which will be communicated by the REA project officer.



Specific ethics review will be carried out accordingly. Further information and specifications could be required to the applicants. Fellowships in this case will start after EC approval and UNITO Bio Ethics Committee approval.

Concerning other Ethical Issues, UNITO will guarantee through the Bio Ethics Committee that proposals which do not respect the national/regional ethical principles and those that apply in FP7 and Horizon 2020 are not co-funded within T2M programme. In this case, the Bio Ethics

Committee will analyse the projects and fellowships will start after UNITO Bio Ethics Committee approval.

Specific indications on information to deliver is provided in the application package, in particular within the Guide for Applicants.

8. Application documents/links

Supporting documents for the application procedures are available on T2M website www.train2move.unito.it Section Application Package.

For further information on T2M please consult our website.

If you cannot find the information you are looking for, you may also contact the T2M Management Team at train2move@unito.it

9. Processing of personal data

According to Italian Legislative Decree 196/2003, personal data supplied by applicants will be gathered by UNITO, for the purposes of management of the selection and will be held in a computer databank following the start of a working relationship, for the purposes of management of the relationship itself.

This data must be supplied for the purposes of evaluation of the requisites for participation, on penalty of exclusion from the selection process.

The given data will be also treated for the development of the institutional functions of the UNITO within the limits established by the laws, regulations and in the respect of the principles of transparency, fairness, discretion and necessity.

This information may only be communicated to the Public Administration directly interested in the legal-economic position of the candidate.

The person in question benefits from all the rights granted under the above-mentioned Legislative Decree, including a right of access to the data and the right to correct, update, complete or delete erroneous or incomplete data, or data gathered under conditions that do not conform to the law, and the right to oppose the processing of their personal data for



legitimate reasons. These rights may be exercised by contacting the Rector of the University.

The Head of data processing is the Administrative Director of the University.

10. Obligation of the fellow

If you will be among selected fellows, your first duty is the successful completion of the research project for which you have been awarded.

You will have to engage full-time in research during the period of the “Assegno di Ricerca” and should not engage in any activity other than developing the stated research project and the Personal Training and Career Development Plan.

11. Confidentiality and intellectual property

During your stay at UNITO, should you, as fellow, come into contact with information or data covered by confidentiality agreements signed by the host Department, you hereby will keep all of this information and data confidential.

The entitlement to register a patent for the inventions produced on the basis of any scientific research activity carried out with the facilities and funds of UNITO is generally governed by the University's Patent Regulations.

Annex I - Research areas

LIFE SCIENCES

Research areas	Department
Stemness and regenerative potential	Department of Molecular Biotechnologies and Health Sciences
Tumor progression and metastasis	Department of Molecular Biotechnologies and Health Sciences
Plasticity of neuronal circuits	Department of Molecular Biotechnologies and Health Sciences
Heart failure: molecular mechanisms	Department of Molecular Biotechnologies and Health Sciences
Animal models of disease	Department of Molecular Biotechnologies and Health Sciences
Metabolic pathways by Mass Spectrometry	Department of Molecular Biotechnologies and Health Sciences
Molecular Imaging in Cancer	Department of Molecular Biotechnologies and Health Sciences
Anti-Cancer Immunity	Department of Molecular Biotechnologies and Health Sciences
Targeted therapy in cancer	Department of Molecular Biotechnologies and Health Sciences
Interpretation of cancer genomics	Department of Molecular Biotechnologies and Health Sciences
Developmental neuroscience and neurodevelopmental disorders	Department of Neurosciences
Molecular and cellular neuroscience, neurogenetics	Department of Neurosciences
Neurochemistry, neuropharmacology and psychopharmacology	Department of Neurosciences
Pathogenesis and therapy of brain damage and neurodegeneration	Department of Neurosciences
Sensory and motor systems: physiology and pathology	Department of Neurosciences
Cognitive neuroscience, neuropsychology and Neuroimaging	Department of Neurosciences
Neuroendocrinology and Behavioural neuroscience	Department of Neurosciences
Clinical psychology and psychotherapy	Department of Neurosciences
Clinical neurology and psychiatry	Department of Neurosciences
Neurosurgery and neuroradiology	Department of Neurosciences
Biology of metastatic process	Department of Oncology
Biomarkers and personalized therapy	Department of Oncology
Cancer genomics: clinical and molecular aspects	Department of Oncology
Innovative therapeutic strategies: clinical and preclinical trials	Department of Oncology
Malaria	Department of Oncology
Mechanisms of resistance to cancer therapies	Department of Oncology
Nanomedicine	Department of Oncology
Protein trafficking and degradation	Department of Oncology

Second cancers and radiotherapy	Department of Oncology
Signals in angiogenesis and tumor microenvironment	Department of Oncology
Psychopathology in Chronic Pain	Department of Psychology
Neuropsychology of Deep Brain Stimulation	Department of Psychology
Biosecurity: alien and intractable pests	Department of Agricultural, Forest and Food Sciences and Technologies
Biosynthesis and characterization of crop nutraceuticals	Department of Agricultural, Forest and Food Sciences and Technologies
Forest disturbance end ecological services	Department of Agricultural, Forest and Food Sciences and Technologies
Functional-Food: sustainable production and nutritional effects	Department of Agricultural, Forest and Food Sciences and Technologies
Insect vectors of plant pathogens	Department of Agricultural, Forest and Food Sciences and Technologies
Protecting soils and their functions	Department of Agricultural, Forest and Food Sciences and Technologies
Soil-crop-climate model systems	Department of Agricultural, Forest and Food Sciences and Technologies
Strategies for crop productivity, stability and quality	Department of Agricultural, Forest and Food Sciences and Technologies
Sustainable livestock farming, dairy production	Department of Agricultural, Forest and Food Sciences and Technologies
Fruit and nut trees biodiversity	Department of Agricultural, Forest and Food Sciences and Technologies
Disabilities rehabilitation	Department of Surgical Sciences
Oncological surgery	Department of Surgical Sciences
Surgery of trauma and malformations	Department of Surgical Sciences
Organ transplatation	Department of Surgical Sciences
Stem cells for regenerative, transplatation and maternal-fetal medicine	Department of Surgical Sciences
Interventional radiology	Department of Surgical Sciences
New technologies in surgery	Department of Surgical Sciences
Maternal foetal medicine	Department of Surgical Sciences
Respiratory diseases	Department of Surgical Sciences
Acute braun injury	Department of Surgical Sciences
Targeting glial cells as treatment targets	Department of Clinical and Biological Sciences
Data integration in genomic medicine	Department of Clinical and Biological Sciences
Long-noncoding RNAs as biomarkers	Department of Clinical and Biological Sciences
Health inequalities assessment	Department of Clinical and Biological Sciences
Oxidative stress and cardiovascular diseases	Department of Clinical and Biological Sciences
Macro/microvascular complications of metabolic disorders	Department of Clinical and Biological Sciences
Personalized treatment of cancer	Department of Clinical and Biological Sciences
Nano-technologies in age-related diseases	Department of Clinical and Biological Sciences
Bio-nano technologies for regenerative medicine	Department of Clinical and Biological Sciences
Research and development of antivirals	Department of Clinical and Biological Sciences
Viral Pathogenesis and Innate Immunity	Department of Public and Pediatric Health Sciences

Viral Infections and Autoimmunity	Department of Public and Pediatric Health Sciences
Host-microbiota Interaction	Department of Public and Pediatric Health Sciences
Occupation for Long-Term Survivors of Childhood Cancer	Department of Public and Pediatric Health Sciences
Occupational Determinants of Cancer	Department of Public and Pediatric Health Sciences
Forensic Pathology	Department of Public and Pediatric Health Sciences
Forensic Genetics	Department of Public and Pediatric Health Sciences
Environment and Primary Prevention	Department of Public and Pediatric Health Sciences
Air Pollution and Infant Health	Department of Public and Pediatric Health Sciences
Communication and interactions in biosystems	Department of Life Sciences and Systems Biology
Evolution of animal and/or human behavior	Department of Life Sciences and Systems Biology
Development of biomolecules for synthetic biology	Department of Life Sciences and Systems Biology
Bio-nanotechnology and its applications	Department of Life Sciences and Systems Biology
Plant and animal physiology	Department of Life Sciences and Systems Biology
Biology and physiology of nervous system	Department of Life Sciences and Systems Biology
Plant and /or animal biology and its environmental applications	Department of Life Sciences and Systems Biology
Biodiversity and systematics of plants/animals	Department of Life Sciences and Systems Biology
Proteomics and genomics for health and biotech	Department of Life Sciences and Systems Biology
Biology and climate change	Department of Life Sciences and Systems Biology
Drug design and synthesis	Department of Medicine Science and Technology
Drug discovery	Department of Medicine Science and Technology
Colloidal drug delivery systems	Department of Medicine Science and Technology
Proteins involved in diseases	Department of Medicine Science and Technology
Translational, analytical, preclinical pharmacology	Department of Medicine Science and Technology
Pharmacogenetics and pharmacogenomics	Department of Medicine Science and Technology
Neurodegenerative mendelian diseases	Department of Medical Sciences
Tumor cells and microenvironment	Department of Medical Sciences
Breast pathology research	Department of Medical Sciences
Biomarkers for gliomas	Department of Medical Sciences
Biomarkers for anal cancer	Department of Medical Sciences



Resistances in cancer therapy	Department of Medical Sciences
Preanalytical research in Pathology	Department of Medical Sciences
Research in screening Pathology	Department of Medical Sciences
Neuropeptides in metabolic diseases	Department of Medical Sciences
Cellular Mechanisms of Neuropathic Pain	Department of Veterinary Sciences
Animal Nutrition, Husbandry and Welfare	Department of Veterinary Sciences
Emerging Vector-Borne Diseases	Department of Veterinary Sciences
Molecular Epidemiology of Parasites	Department of Veterinary Sciences
Adult Stem Cells and Ageing	Department of Veterinary Sciences
Food Safety and Quality	Department of Veterinary Sciences
Mathematical and Computational Models	Department of Veterinary Sciences
Protein Degradation	Department of Veterinary Sciences
Canine Model in Comparative Oncology	Department of Veterinary Sciences
Biodiversity Conservation and Genetic Improvement	Department of Veterinary Sciences

SCIENCES

Research areas	Department
Bioactive Fluorescent Probes for Life Sciences	Department of Chemistry
Biomimetic Materials for Sensing and Analytical Applications	Department of Chemistry
Organic Molecules for Energy	Department of Chemistry
Innovative Materials from Ab-Initio Simulation	Department of Chemistry
Innovative Nanomaterials for Water Emerging Pollutants	Department of Chemistry
Bio- and Inorganic Compounds for Life Sciences	Department of Chemistry
Materials for Hydrogen Storage	Department of Chemistry
Nanostructured Materials for Catalysis	Department of Chemistry
Nanostructured Materials for Energy Conversion and Storage	Department of Chemistry
Polymers in Nanotechnology, Biomedicine and Energy	Department of Chemistry
Theoretical high-energy physics	Department of Physics
Cosmology and astroparticle physics	Department of Physics
Complex systems	Department of Physics
Fluid-dynamics models in physics and astrophysics	Department of Physics
Development of particle detectors and electronics	Department of Physics
Cloud computing for physics	Department of Physics
Experimental physics at accelerators	Department of Physics
Nanoscale materials and devices	Department of Physics
New tools in hadron-therapy	Department of Physics
Technologies for cultural heritage	Department of Physics
Logics for Multiagent Systems	Department of Computer Science
Digital image processing and computer vision	Department of Computer Science
Large scale data management and analysis	Department of Computer Science
New business model generation	Department of Computer Science
Towards a sustainable citizen-centered health and care system	Department of Computer Science
Formal Approaches to Software Development	Department of Computer Science
Lambda Calculus, Types and Models	Department of Computer Science
Energy-aware concurrent programming models	Department of Computer Science
Verification and dependability for systems we can rely upon	Department of Computer Science
Models, analysis and applications for computational data science	Department of Computer Science
Birational Geometry of Varieties	Department of Mathematics "Giuseppe Peano"
Descriptive Set Theory	Department of Mathematics "Giuseppe Peano"
Geometric Flows	Department of Mathematics "Giuseppe Peano"
Models for Covariant Dynamics.	Department of Mathematics "Giuseppe Peano"
Differential Equations and Solitons.	Department of Mathematics "Giuseppe Peano"

Mathematical Models in Agroecosystems.	Department of Mathematics "Giuseppe Peano"
Multivariate Approximation with Applications.	Department of Mathematics "Giuseppe Peano"
Fourier Analysis and Applications.	Department of Mathematics "Giuseppe Peano"
Stochastics for Complex Systems.	Department of Mathematics "Giuseppe Peano"
Categorical and Computational Algebra	Department of Mathematics "Giuseppe Peano"
Exhumation of lithosphere: influence on climate	Department of Geological Sciences
Ab Initio mineral thermodynamics	Department of Geological Sciences
Fossil Earth extreme environments	Department of Geological Sciences
Evolution of vertebrate diversity	Department of Geological Sciences
Tectono-metamorphic processes at plate margin	Department of Geological Sciences
Dynamic processes at active volcanoes	Department of Geological Sciences
Groundwater evaluation and protection	Department of Geological Sciences
Proactive management of Geoheritage	Department of Geological Sciences
Near surface seismic characterization	Department of Geological Sciences
Exploration and sustainability of raw materials	Department of Geological Sciences
Energy-saving chemical processes	Department of Medicine Science and Technology
Green synthetic procedures	Department of Medicine Science and Technology
Phytochemical analysis	Department of Medicine Science and Technology
Nanotechnology for diagnosis and therapy	Department of Medicine Science and Technology

SOCIO - ECONOMIC SCIENCES

Research areas	Department
Migrations and urban change	Department of Cultures, Politics and Societies
Democratization in Middle East	Department of Cultures, Politics and Societies
Democracy, political parties, populism	Department of Cultures, Politics and Societies
Race and Citizenship	Department of Cultures, Politics and Societies
Family and Social Policy	Department of Cultures, Politics and Societies
Environmental Transition and socio-technical systems	Department of Cultures, Politics and Societies
Human rights in anthropological perspective	Department of Cultures, Politics and Societies
Communication and digital divide	Department of Cultures, Politics and Societies
Aging and Home Care Provision	Department of Cultures, Politics and Societies
Globalisation and urban political geography	Department of Cultures, Politics and Societies
Applied and Methodological Statistics	Department of Economics "Cognetti de Martiis"
Demography	Department of Economics "Cognetti de Martiis"
History of Economics and Economic Methodology	Department of Economics "Cognetti de Martiis"
Macroeconomics, Finance and International Economics	Department of Economics "Cognetti de Martiis"
Public, Environmental and Cultural Economics	Department of Economics "Cognetti de Martiis"
Complexity Economics	Department of Economics "Cognetti de Martiis"
Business, Industrial and Agricultural Economics	Department of Economics "Cognetti de Martiis"
Economics of Innovation and Science	Department of Economics "Cognetti de Martiis"
Labor, Household and Gender Economics	Department of Economics "Cognetti de Martiis"
Development Economics and Migration	Department of Economics "Cognetti de Martiis"
Corporate criminal liability in Europe	Department of Law
International Commercial Arbitration and State Courts	Department of Law
Mediation & Rule of Law	Department of Law
The European Economic Governance after the crisis	Department of Law
Roman foundations of administrative law	Department of Law
History of religious freedom in the contemporary age	Department of Law
Organized crime and public procurements	Department of Law
Citizenship rights	Department of Law
European consumer law	Department of Law
Legal multilingualism	Department of Law
Corruption and remedies	Department of Management
Transparency and Integrity of public authorities	Department of Management
Business Ethic	Department of Management
Company Taxation in UE and European competitiveness	Department of Management
New European Accounting strategy for Corporations and SMEs	Department of Management
Environmental Management	Department of Management



Mutual Fund Industry	Department of Management
SME access to finance	Department of Management
Financial markets	Department of Management
International finance	Department of Management
Adolescence Risk Behavior	Department of Psychology
Psychological Assessment	Department of Psychology
Early Communication Development	Department of Psychology
Early Child Care Improvement	Department of Psychology
Agent-based simulation for social science	Department of Social-Economic, Mathematical and Statistical Sciences
Empirical analysis of taxation	Department of Social-Economic, Mathematical and Statistical Sciences
Applied health economics	Department of Social-Economic, Mathematical and Statistical Sciences
Applied microeconomics	Department of Social-Economic, Mathematical and Statistical Sciences
Bayesian non-parametrics	Department of Social-Economic, Mathematical and Statistical Sciences
The corporate finance of business groups	Department of Social-Economic, Mathematical and Statistical Sciences
Savings, heterogeneity and housing decisions	Department of Social-Economic, Mathematical and Statistical Sciences
Language and financial decisions	Department of Social-Economic, Mathematical and Statistical Sciences
Gender behavioral economics	Department of Social-Economic, Mathematical and Statistical Sciences
Health and human capital of the elderly	Department of Social-Economic, Mathematical and Statistical Sciences

HUMANITIES

Research areas	Department
Logic and proof-theory	Department of Philosophy and Educational Sciences
Language, Epistemology and Cognition	Department of Philosophy and Educational Sciences
Modal Metaphysics and Fictional Possibilities	Department of Philosophy and Educational Sciences
Kant and Neo-Kantian Tradition	Department of Philosophy and Educational Sciences
Social Ontology	Department of Philosophy and Educational Sciences
Philosophy of Art	Department of Philosophy and Educational Sciences
Ethics of Emerging Technologies in Life Sciences	Department of Philosophy and Educational Sciences
Creation of value in cultural heritage	Department of Philosophy and Educational Sciences
The sociocultural impact of visual devices	Department of Philosophy and Educational Sciences
The sociocultural impact of catastrophes and emergencies	Department of Philosophy and Educational Sciences
Literature and National Identity	Department of Foreign Languages and Literatures and Modern Cultures
Identity in institutional and political discourse	Department of Foreign Languages and Literatures and Modern Cultures
21st century diaspora cultures	Department of Foreign Languages and Literatures and Modern Cultures
World English(es) in immigrant/diasporic contexts	Department of Foreign Languages and Literatures and Modern Cultures
Narrative autobiographical perspectives	Department of Foreign Languages and Literatures and Modern Cultures
Environmental Humanities	Department of Foreign Languages and Literatures and Modern Cultures
L2 Academic Italian for university students	Department of Foreign Languages and Literatures and Modern Cultures
Phonetic and prosodic properties of European languages	Department of Foreign Languages and Literatures and Modern Cultures
Identity and Memory in European Contemporary Drama	Department of Foreign Languages and Literatures and Modern Cultures
Sociolinguistics of Minority Languages	Department of Foreign Languages and Literatures and Modern Cultures
History of the Ancient Near East	Department of Historical Studies
Social History of Contemporary Politics	Department of Historical Studies
History of Reading and Information Society	Department of Historical Studies
Art History, Museology, Criticism	Department of Historical Studies
Audience, Performing Arts and Media	Department of Humanistic Studies
Theoretical and applied linguistic of Italian	Department of Humanistic Studies
Sociolinguistics of minority languages	Department of Humanistic Studies
Critical editions, traslations and commentaries	Department of Humanistic Studies
European novel and short forms	Department of Humanistic Studies
Multilingualism in Asia and in Africa	Department of Humanistic Studies
Society, religion and gender in literature	Department of Humanistic Studies
Comparative studies in arts and culture	Department of Humanistic Studies
Antiquity, Italy and European identity	Department of Humanistic Studies
Storage and digitalization of Italian culture	Department of Humanistic Studies