



UNIVERSITÀ  
DEGLI STUDI  
DI TORINO  
ALMA UNIVERSITAS  
TAURINENSIS



# T2M

## 2<sup>nd</sup> CALL FOR PROPOSALS

*Version 5<sup>th</sup> March 2015*

## Table of contents

|            |                                                                   |           |
|------------|-------------------------------------------------------------------|-----------|
| <b>1.</b>  | <b>Getting started: T2M programme .....</b>                       | <b>3</b>  |
| <b>2.</b>  | <b>Deadline .....</b>                                             | <b>4</b>  |
| <b>3.</b>  | <b>Why apply for a T2M Fellowship? .....</b>                      | <b>4</b>  |
| <b>4.</b>  | <b>Beneficiaries: who can apply? .....</b>                        | <b>5</b>  |
|            | <b>Ineligibility and incompatibility with other funding .....</b> | <b>6</b>  |
| <b>5.</b>  | <b>How to apply? .....</b>                                        | <b>6</b>  |
| <b>6.</b>  | <b>Selection and evaluation criteria.....</b>                     | <b>7</b>  |
|            | Acceptance of fellowship and appointment .....                    | 9         |
|            | Request of redress .....                                          | 10        |
| <b>7.</b>  | <b>Ethical principles.....</b>                                    | <b>10</b> |
| <b>8.</b>  | <b>Application documents/links.....</b>                           | <b>11</b> |
| <b>9.</b>  | <b>Processing of personal data.....</b>                           | <b>11</b> |
| <b>10.</b> | <b>Obligation of the fellow.....</b>                              | <b>11</b> |
| <b>11.</b> | <b>Confidentiality and intellectual property .....</b>            | <b>12</b> |
| <b>12.</b> | <b>Annex I – Research areas .....</b>                             | <b>13</b> |
|            | LIFE SCIENCES .....                                               | 13        |
|            | SCIENCE .....                                                     | 15        |
|            | SOCIO – ECONOMIC SCIENCES .....                                   | 16        |
|            | HUMANITIES .....                                                  | 17        |



## 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 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/academic and private/non-academic sector.

T2M is exploited through 2 calls for proposals.

The 1st Call, open from 5th March to 5th May 2014, awarded 14 experienced researchers, hosted in 10 different Departments of UNITO (visit Train2Move web page, [1st Call results](#)). The present Call addresses to the same target.

T2M programme is open to researchers of any nationality, **in possession of MSc degree, that at the time of the call deadline, are either in possession of a PhD from no more than 7 years or demonstrate to have, in the last ten years, a track record of at least 4 consecutive years of full time equivalent research experience up to 10 years.**

Moreover eligible researchers need to comply with the **mobility rule**, that is 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.

Mobility can be from EU Member States, 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 **26 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 proposals.

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.

During the application process, prospective fellows are strongly encouraged to contact professors/researchers from UNITO working in the research area in which they are interested, in order to assess the feasibility of potential project proposal within the Department.

## 2. Deadline

The deadline for this call for proposals is on **5th May 2015 h. 17.00 (Italy local time)**.

Applications must be submitted through **the online application tool** available in the reserved area for applicants of T2M website: [www.train2move.unito.it](http://www.train2move.unito.it)

Details on the application procedure are provided in the Application Package Section and in the Guide 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 it will host fellows in its **26** highly equipped 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 months**.

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)<sup>1</sup>.

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;

---

<sup>1</sup> Parental leave is included according to the National Law.

- **mobility and travel allowances:** corresponding to 8,000 € for mobility on average<sup>2</sup> and 1,000 € for travel. These allowances consist 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€              |
| <b>TOTAL GROSS SALARY (inclusive of any charges)</b> | <b>37,500€</b>      |
| <b>Contributions to research costs/year</b>          | <b>8,000€</b>       |

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

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. Information about the training programme on complementary skills is available in the section "About T2M" of programme website.

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

Your Scientific Supervisor in the 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.

---

<sup>2</sup> Please consider that, according to FP7 PEOPLE Work Programme, the mobility allowance will be calculated according to the researcher's status **at the time of call deadline**:

- €800/month: Researcher with family obligations (marriage or equivalent status recognised by national legislation of the Country of the host or of the nationality of the researcher, and/or charge of children).
- €500/month: Researcher without family obligations.

Moreover, if you are a potential T2M fellow, **on the date of the relevant deadline** for submission of proposals, **you must be in possession of a MSc** (Master of Science) degree **and you must:**

**EITHER**

- 1. be in possession of a PhD from no more than 7 years**

**OR**

- 2. demonstrate to have, in the last ten years, a track record of at least 4 consecutive years of full time equivalent research experience up to 10 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. They must provide up to 3 letters of reference. 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 to apply, you must register in the web site of the programme, through the reserved area for applicants ([www.train2move.it](http://www.train2move.it)).

In order to create a new account, you will have to enter your profile data (name, contact details, personal data and information on your current position) 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 do not receive the mail within 24 hours please contact [train2move@unito.it](mailto:train2move@unito.it). Once you make the log in, you will enter the reserved area (for more details please see Guide For Applicants).

In the reserved area, you will be asked to fill in the Eligibility section. After that you will be able to access the Apply section, download the necessary template to prepare your proposal (Application Template) and submit your 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 application and regarding the submission are available on the T2M website [www.train2move.unito.it](http://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 during the application process and in the proposal. The Management Team of T2M Programme will conduct the eligibility check. Please note that contrasting information between data provided in Eligibility section and the application template may compromise your request of participation to the present Call.

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

- the proposal has been submitted **online through the T2M website** and received **within the deadline date**;
- the proposal is **complete**: Cover page+ Form A + Form B + additional required documents - ID or passport mandatory, scanned copy of PhD diploma certificate if applicable, up to 3 letters of references mandatory if you are resuming a career after break - are submitted, Keywords and Abstract have been filled in, Panel and Research area/Research areas have been selected;
- the proposal respects the requested format (page limits, layout according to T2M provided templates)
- **rule of mobility** and **eligibility criteria of research activity experience** are satisfied.

**Rule of mobility:** at the time of the call deadline, researchers 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 reference date. Compulsory national service and/or short stays such as holidays are not taken into account.

**Eligibility criteria of research activity experience:** Experienced researchers must, at the time of the relevant deadline for submission of proposals be in possession of a MSc degree; moreover, they must:

**EITHER be in possession of a PhD from no more than 7 years**

**OR demonstrate to have, in the last ten years, a track record of at least 4 consecutive years of equivalent full time research equivalent experience up to 10 years.**

The PhD years can be considered as years of full time research equivalent experience only if the awarding University certifies that PhD courses fully correspond to full time research equivalent experience. In that case, fellows must provide, at the time of submission, a declaration of the awarding University duly signed by its representative.

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. IN case of breaks due to health issues or personal reasons, applicants have to provide up to 3 letters of reference.

The results of the eligibility check are expected to be sent to the applicants by email **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 procedure will be entrusted to an external independent agency selected through a negotiated awarding procedure, carried out accordingly to Italian Law on Public Tender Procedures. The agency will appoint a **Scientific Selection Committee (SSC)**, made of international expert evaluators. The Scientific Selection Committee will be organized in 4 panels, according to the research areas chosen by applicants. 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 follows:

| 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. Evaluation summary reports will be sent to applicants by email 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: applicants 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 chosen research area.

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 of 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 e-mail to [train2move@unito.it](mailto: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.

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

In Section 3 of the Application Template (Form B) you will be required to fill in the **Ethic Issues Table** specifying if your proposal involves or not any ethic issues.

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 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 and in particular within the Guide for Applicants.

Warning: you must complete the Ethic Issues Table even if your research project does not involve any of its points.

## 8. Application documents/links

Supporting documents for the application procedures are available on T2M website [www.train2move.unito.it](http://www.train2move.unito.it), Section Application Package.

For further information on T2M please consult the programme website.

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

## 12. Annex I – Research areas

### LIFE SCIENCES

| research areas                                                                                                                                   | department                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| Nanotechnology and Biochemistry for diagnosis and therapy                                                                                        | Department of Drug Sciences and Technologies       |
| Pharmacogenetics, pharmacogenomics and preclinical pharmacology                                                                                  | Department of Drug Sciences and Technologies       |
| Innovative and biotechnological approaches in regeneration, degenerative and rare diseases and comorbidities (including epidemiological studies) | Department of Clinical and Biological Sciences     |
| Research and development of antivirals                                                                                                           | Department of Clinical and Biological Sciences     |
| Genomic medicine (including epigenetics and long noncoding RNA research)                                                                         | Department of Clinical and Biological Sciences     |
| Personalized treatments in onco-hematology                                                                                                       | Department of Clinical and Biological Sciences     |
| Mechanisms of metabolic, cardiovascular and immuno-mediated disorders (incl. oxidative stress)                                                   | Department of Clinical and Biological Sciences     |
| Communication and interactions in biosystems                                                                                                     | Department of Life Sciences and Systems Biology    |
| Systems physiology in animals and plants                                                                                                         | Department of Life Sciences and Systems Biology    |
| Evolution of animal and/or human behavior                                                                                                        | Department of Life Sciences and Systems Biology    |
| Engineering of biomolecules, proteomics and genomics: applications                                                                               | Department of Life Sciences and Systems Biology    |
| Biology and its environmental effects                                                                                                            | Department of Life Sciences and Systems Biology    |
| Animal Models in Neurobiology, Endocrinology and Tissue Regeneration                                                                             | Department of Veterinary Sciences                  |
| Animal Nutrition, Husbandry and Welfare                                                                                                          | Department of Veterinary Sciences                  |
| Mechanisms and Epidemiology of Infectious and Parasitic Diseases                                                                                 | Department of Veterinary Sciences                  |
| Food Safety and Quality                                                                                                                          | Department of Veterinary Sciences                  |
| Domestic Animals Model in Comparative Oncology                                                                                                   | Department of Veterinary Sciences                  |
| Viruses and oncogenesis                                                                                                                          | Department of Public and Pediatric Health Sciences |
| Forensic Pathology and Genetics                                                                                                                  | Department of Public and Pediatric Health Sciences |
| Viruses and Autoimmunity                                                                                                                         | Department of Public and Pediatric Health Sciences |
| Environmental risks, Primary Prevention and Infant Health                                                                                        | Department of Public and Pediatric Health Sciences |
| Occupational Determinants in pediatric and adult Cancers                                                                                         | Department of Public and Pediatric Health Sciences |
| Psychopathology in Chronic Pain                                                                                                                  | Department of Psychology                           |
| Neuropsychology of Deep Brain Stimulation                                                                                                        | Department of Psychology                           |
| Early Communication Development                                                                                                                  | Department of Psychology                           |
| Early Child Care Improvement                                                                                                                     | Department of Psychology                           |
| Mechanisms of resistance to cancer therapies                                                                                                     | Department of Oncology                             |
| Signals in angiogenesis and tumor microenvironment                                                                                               | Department of Oncology                             |
| Nanomedicine                                                                                                                                     | Department of Oncology                             |
| Gene neworking in oncology                                                                                                                       | Department of Oncology                             |
| Innovative therapeutic strategies in radiotherapy and personalized medicine : clinical and preclinical trials                                    | Department of Oncology                             |

|                                                                                                                                       |                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| Rehabilitation of degenerative, traumatic and malformative diseases                                                                   | Department of Surgical Sciences                           |
| Maternal foetal medicine                                                                                                              | Department of Surgical Sciences                           |
| Oncological surgery                                                                                                                   | Department of Surgical Sciences                           |
| Organ transplantation and stem cells                                                                                                  | Department of Surgical Sciences                           |
| New technologies in surgery                                                                                                           | Department of Surgical Sciences                           |
| Strategies for crop productivity, stability and quality                                                                               | Department of Agricultural, Forest and Food Sciences      |
| Integrated approaches to water and climate change                                                                                     | Department of Agricultural, Forest and Food Sciences      |
| Eco-innovative production and processing for healthy foods                                                                            | Department of Agricultural, Forest and Food Sciences      |
| Soil quality and ecosystem function                                                                                                   | Department of Agricultural, Forest and Food Sciences      |
| Forest disturbance end ecological services                                                                                            | Department of Agricultural, Forest and Food Sciences      |
| Developmental neuroscience and Neurodevelopmental disorders                                                                           | Department of Neurosciences                               |
| Molecular, cellular and technological approaches to understand physiologic and altered mechanisms in neuronal and cognitive functions | Department of Neurosciences                               |
| Clinical Neurology, Clinical Psychiatry, Behavioral Neuroscience                                                                      | Department of Neurosciences                               |
| Cognitive Neuroscience, Neuropsychology, Neuro-psycopharmacology and Neuroimaging                                                     | Department of Neurosciences                               |
| Pathogenesis and therapy of brain injuires and Neurodegeneration                                                                      | Department of Neurosciences                               |
| Neurodegenerative mendelian diseases                                                                                                  | Department of Medical Sciences                            |
| Advanced diagnostic and prognostic stratgies in cancer                                                                                | Department of Medical Sciences                            |
| Research in screening Pathology                                                                                                       | Department of Medical Sciences                            |
| Tumor cells, microenvironment and resistances to therapy                                                                              | Department of Medical Sciences                            |
| Neuropeptides in metabolic diseases                                                                                                   | Department of Medical Sciences                            |
| Stemness and regenerative potential in brain, liver, heart and kideny diseases                                                        | Department of Molecular Biotechnology and Health Sciences |
| A global approach for cancer: from the mechansism to the the therapies                                                                | Department of Molecular Biotechnology and Health Sciences |
| Heart failure: molecular mechanisms                                                                                                   | Department of Molecular Biotechnology and Health Sciences |
| Molecular Imaging in Cancer                                                                                                           | Department of Molecular Biotechnology and Health Sciences |
| Metabolomics , genomics and proteomics in degenerative diseases                                                                       | Department of Molecular Biotechnology and Health Sciences |

## SCIENCE

| research areas                                                                                                         | department                                   |
|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Mathematical Logic: descriptive Set Theory                                                                             | Department of Mathematics "Giuseppe Peano"   |
| Algebra and Geometry (Birational Geometry of Varieties, categorical and computational Algebra and Riemannian Geometry) | Department of Mathematics "Giuseppe Peano"   |
| Numerical Analysis: multivariate approximation with applications                                                       | Department of Mathematics "Giuseppe Peano"   |
| Mathematical Analysis: Partial Differential Equations and Fourier Analysis                                             | Department of Mathematics "Giuseppe Peano"   |
| Probability and Statistics: stochastic for complex systems                                                             | Department of Mathematics "Giuseppe Peano"   |
| Pharmaceutical technologies: drug discovery, design, synthesis and delivery                                            | Department Of Drug Sciences and Technologies |
| Bioactive compounds: innovative synthetic and analytical procedures                                                    | Department Of Drug Sciences and Technologies |
| Pharmaceutical industry: process intensification and sustainable scaling up                                            | Department Of Drug Sciences and Technologies |
| Evolutionary Paleoecology and Paleoclimatology of the Marine Biosphere                                                 | Department of Geological Sciences            |
| Carbonate and Evaporite Deposits: Genesis and Diagenesis                                                               | Department of Geological Sciences            |
| Geodynamics and Petrogenesis of Plate Margins                                                                          | Department of Geological Sciences            |
| Environment Protection and Sustainably Managing of Natural Resources                                                   | Department of Geological Sciences            |
| Geodiversity, Geo-Resources and Climate Change: Adaptive Assessment and Proactive Management.                          | Department of Geological Sciences            |
| Nanostructured Materials: from modelling to experiments                                                                | Department of Chemistry                      |
| Chemistry for Life Sciences                                                                                            | Department of Chemistry                      |
| Archaeometry and materials in cultural heritage                                                                        | Department of Chemistry                      |
| Biomimetic Materials                                                                                                   | Department of Chemistry                      |
| Innovative Materials for Energy Conversion and Storage                                                                 | Department of Chemistry                      |
| Astrophysics, astroparticles and cosmology                                                                             | Departments Physics                          |
| Physics applied to medicine and cultural heritage                                                                      | Departments Physics                          |
| Fluid-dynamics and complex systems                                                                                     | Departments Physics                          |
| Nanoscale materials and devices                                                                                        | Departments Physics                          |
| Advanced instrumentation and computing                                                                                 | Departments Physics                          |
| DATA MANAGEMENT AND INFORMATION SYSTEMS                                                                                | Department of Computer Sciences              |
| ARTIFICIAL INTELLIGENCE, HUMAN MACHINE INTERACTION, IMAGE PROCESSING                                                   | Department of Computer Sciences              |
| NEW BUSINESS MODEL GENERATION, OPERATIONAL RESEARCH                                                                    | Department of Computer Sciences              |
| FORMAL METHODS IN COMPUTING                                                                                            | Department of Computer Sciences              |
| PERFORMANCE EVALUATION AND SYSTEM VERIFICATION OF COMPUTER, COMMUNICATION AND DISTRIBUTED SYSTEMS                      | Department of Computer Sciences              |

## SOCIO – ECONOMIC SCIENCES

| research areas                                             | department                                                           |
|------------------------------------------------------------|----------------------------------------------------------------------|
| Corruption and remedies                                    | Department of Management                                             |
| Business Ethic                                             | Department of Management                                             |
| New European Accounting strategy for Corporations and SMEs | Department of Management                                             |
| Environmental Management                                   | Department of Management                                             |
| Financial markets                                          | Department of Management                                             |
| Statistics and Data Analysis                               | Department of Economics "Cognetti de Martiis"                        |
| Complexity Economics and Heterodox Approaches              | Department of Economics "Cognetti de Martiis"                        |
| Economics of Innovation, Science, and Technology           | Department of Economics "Cognetti de Martiis"                        |
| Household, Income, Labour and Demographic Economics        | Department of Economics "Cognetti de Martiis"                        |
| Behavioural and Experimental Economics                     | Department of Economics "Cognetti de Martiis"                        |
| Social interaction                                         | Department of Psychology                                             |
| The corporate finance of business groups                   | Department of Social-Economic, Mathematical and Statistical Sciences |
| Gender behavioral economics and sociology                  | 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 European Economic Governance after the crisis          | Department of Law                                                    |
| Crime in corporate and public procurement                  | Department of Law                                                    |
| Citizenship rights                                         | Department of Law                                                    |
| Legal multilingualism                                      | Department of Law                                                    |
| Global administrative law on environmental matters         | Department of Law                                                    |
| The social regulation of the economy                       | Department of Cultures, Politics and Society                         |
| Transatlantic Relations in Historical Perspective          | Department of Cultures, Politics and Society                         |
| Family and welfare state                                   | Department of Cultures, Politics and Society                         |
| Religion and Politics in the European Union                | Department of Cultures, Politics and Society                         |
| Human rights in anthropological perspective                | Department of Cultures, Politics and Society                         |

## HUMANITIES

| research areas                                                        | department                                                          |
|-----------------------------------------------------------------------|---------------------------------------------------------------------|
| The Creation of Value in Cultural Heritage                            | Department of Philosophy and Educational Sciences                   |
| Philosophy of Language and Philosophy of Mind                         | 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                   |
| Housing Quality for Homeless People                                   | Department of Philosophy and Educational Sciences                   |
| AUDIENCE, PERFORMING ARTS AND MEDIA                                   | Department of Humanistic Studies                                    |
| CRITICAL EDITIONS, TRANSLATIONS AND COMMENTARIES                      | Department of Humanistic Studies                                    |
| MULTILINGUALISM IN ASIA AND IN AFRICA                                 | Department of Humanistic Studies                                    |
| COMPARATIVE PERSPECTIVES ON ITALIAN LITERATURE                        | Department of Humanistic Studies                                    |
| THEORETICAL AND APPLIED LINGUISTICS OF ITALIAN                        | Department of Humanistic Studies                                    |
| Literature and National Identity                                      | Department of Foreign Languages and Literatures and Modern          |
| English in Italy: linguistic, educational and professional challenges | Department of Foreign Languages and Literatures and Modern Cultures |
| Environmental Humanities                                              | Department of Foreign Languages and Literatures and Modern Cultures |
| Sociolinguistics of Minority Languages                                | Department of Foreign Languages and Literatures and Modern Cultures |
| Staging the Identity in Contemporary European Drama                   | 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                                    |
| Modern History and Human Rights                                       | Department of Historical Studies                                    |
| Art History, Museology, Criticism                                     | Department of Historical Studies                                    |
| Religion in Ancient Mediterranean World                               | Department of Historical Studies                                    |