

At the cutting-edge of innovation, eighteen institutes for research and education promote Aix-Marseille Université as a centre of excellence, with the aim of increasing the visibility of the institution at the national and international levels. Their uniqueness is to combine high-level education and intensive research within Graduate school, delivering an excellent training. The main challenges for the university are to generate new knowledge and know-how through the prism of interdisciplinarity, to bring out talent, to attract the best researchers and to obtain external funding.

The *Institut Cancer et Immunologie*, the *Marseille Imaging Institute* and the *Institut Laënnec, Sciences numériques et IA pour la santé*, have come together to create an **interdisciplinary PhD program**.

Call for PhD Proposals Interdisciplinary “transversal” PhD program 2022

Project Topics

The 3 institutes are working together to coordinate a new interdisciplinary PhD program focusing on Biomedical Sciences at Aix-Marseille Université (AMU). For its first year, the program is seeking to fund **for 3 years 3 full-time interdisciplinary PhD scholarships** beginning in **October 2022**. We are collecting research project proposals from members of the research centers associated with one or more of the 3 institutes. In assent with AMU Institutes’ vision and mission statement, the PhD program will give priority to **international** and **innovative** research projects (<https://www.univ-amu.fr/en/public/aix-marseille-universite-institutes>).

1. **Scholarship 1** – Interdisciplinary work with 2 PhD supervisors, one in the field of **immunology-oncology** and the other in the field of **biomedical imaging**,
2. **Scholarship 2** - Interdisciplinary work with 2 PhD supervisors, one in the field of **biomedical imaging** and the other in the field of **digital sciences and artificial intelligence applied to health**,
3. **Scholarship 3** - Interdisciplinary work with 2 PhD supervisors, one in the field of **digital sciences and artificial intelligence applied to health** and the other in the field of **immunology-oncology**.

The PhD program in Biomedical Sciences will provide a distinctive and cutting-edge opportunity for students to become engaged professionals, to be leaders and team players in a biomedical environment that is becoming more complex (transdisciplinary integrated team care approach) and more international. To better prepare our students, our program will provide them with an education more tailored to the needs of this changing, dynamic and global society. In collaboration and partnership with the university, the research centers (CNRS, INSERM, IRD, OEM, RU, CEA), the hospitals (AP-HM, IPC), and the biotechnology and pharmaceutical companies, the interdisciplinary PhD program in Biomedical Sciences aims to:

- Create a recognized community of scientists, clinicians and entrepreneurs that will work together to provide excellence in care,

- Increase the experiential learning education by better bridging the university to the research laboratories in translational medicine and to the biotechnology/pharmaceutical companies,
- Strengthen the theoretical and didactic education by using innovative pedagogical tools.

Timeline

Projects not selected for this program may be submitted to another program within AMU.

DEADLINE February 28, 2022	Project submission (with project proposal submission form only)
March 01, 2022 to March 15, 2022	Project selection
March 15, 2022 to May 15, 2022	National and international projects advertisement Application of students directly to project supervisors
May 16, 2022 to May 31, 2022	Selected students register to the ADUM website (https://www.adum.fr/) (basic criteria are reviewed)
June 01, 2022 to June 15, 2022	Concours by jury selection
June 16, 2022 to June 30, 2022	Awards results publication

Eligibility Criteria

Projects

- ☐ Project leaders (PhD Directors) **must be certified HDRs** (Habilitation à Diriger des Recherches, i.e., Accreditation to Direct Research) to supervise any PhD student
- ☐ Project leaders who have received an “Institut” PhD fund in the last year (2021) are **excluded**
- ☐ The project leaders must belong to a laboratory of each institute (see Annex 1)
- ☐ Supervisors will formally be responsible advisors for the PhD and the student will be **contractually assigned to the lead supervisor lab (PhD Director and Doctoral School associated)**
- ☐ The interdisciplinary PhD program will prioritize PhD projects from its different academic and clinical partners (see Annex 1)

Students

- ☐ **Students must rank in the 1st third of their Master (M2 when it applies) class to qualify**
- ☐ **Students who apply for more than one scholarship will have to rank their choice to be considered for review**
- ☐ English language proficiency
- ☐ Communication skills

Proposal Submission

The PhD project proposals must be submitted using the attached **Project Proposal Submission Form** no later than **February 28, 2022** at marie-dominique.franco@univ-amu.fr.

Detailed information and guidelines on the Doctoral School can be found at <https://www.univ-amu.fr/en/public/doctoral-schools>.

Annex 1: List of partners

CERIMED - Centre Européen de Recherche en Imagerie Médicale

CIML - Centre d'Immunologie de Marseille-Luminy

CINaM - Centre interdisciplinaire de nanoscience de Marseille

CPPM/IPC - Centre de Physique des particules de Marseille

CRCM - Centre de recherche en cancérologie de Marseille

CRMBM - Centre de Résonance magnétique Biologique et médicale

C2VN - Centre de Recherche en cardiovasculaire et Nutrition

FRESNEL - Institut Fresnel Marseille

IBDM - Institut de biologie du développement de Marseille

ICR - Institut de chimie radicalaire

IM2NP - Institut matériaux microélectronique nanosciences de Provence

INMED - Institut de neurobiologie de la méditerranée

INP - Institut de NeuroPhysiopathologie

INS - Institut de Neurosciences des Systèmes

INT - Institut de neurosciences Timone

LAI - Laboratoire Adhésion et inflammation

LAM - Laboratoire d'astronomie de Marseille

LCB - Laboratoire de chimie bactérienne

LIIE - Laboratoire d'imagerie Interventionnelle expérimentale

LIS - Laboratoire d'Informatique et système

LMA - laboratoire de Mécanique et d'Acoustique

LP3 - Laboratoire lasers plasmas et procédés photoniques

TAGC - Theories and Approches of Genomic Complexity

AP-HM - Assistance Publique – Hôpitaux de Marseille

IPC - Institut Paoli-Calmettes