

## CALL FOR APPLICATIONS JUNIOR PROFESSOR CONTRACT

Aix-Marseille University (AMU) is offering a Junior Professor contract in the scientific field of 5 sections of the National University Council (CNU): 32,64,85,86,87. The research units concerned are those mentioned below.

**Level of the position in which the candidate will be granted tenure after the completion of the Junior Professor contract :** University professor (cat. A)

**Nature and purpose on the research and teaching project:** “New approaches in chemistry-biology for the design of therapeutic molecules and their vectorization”.

**Scientific field :** Innovative therapies, biological chemistry, chemical synthesis, drug vectorization, chemoinformatics

**Expected duration :** 5 years

**Remuneration :** 3 443,50 € minimum gross/month (depending on the experience)

**Starting date :** between December 1<sup>st</sup> and December 31<sup>st</sup>, 2025

**Affiliation :** Aix-Marseille University / Within the following Research Units

[CRCM](#), [C2VN](#), [INP](#), [ICR](#), [MMG](#), [MCT](#), [UVE](#), [IMBE](#), [CERIMED](#)

### Strategy of the host institution

Aix-Marseille Université (AMU) is building its strategy around a number of priorities that mark its identity and forge its roadmap for consolidating the institution's excellence and attractiveness :

- make interdisciplinarity a strategic and transformative tool by capitalising on the multidisciplinary research potential of the Aix-Marseille site,
- develop structuring actions to strengthen the links between education and research,
- position AMU, with its multidisciplinary research capacity, as a major player in innovation to increase the transfer and exploitation of research results to socio-economic and cultural partners,
- assert and increase the dynamism of its site policy, co-constructed and relayed in particular within the Initiative for Excellence (A\*Midex) and its governance,
- confirm its European commitment to European research programmes and the CIVIS alliance,
- and finally, to strengthen and broaden its Mediterranean identity.

Aix-Marseille Université's commitment to focuses on societal issues such as health and the environment. These challenges require an interdisciplinary approach that has been strengthened within AMU by the creation of the Mission Interdisciplinarité(s), launched by AMU in 2020, which promotes dialogue between academic disciplines and strengthens links with the region's economic and cultural players.

The implementation of this strategy has led AMU to create Aix-Marseille Université institutes focusing on interdisciplinary themes of excellence. Aix-Marseille Université has created 18 institutes. They follow in the footsteps of the Convergences institutes (CenTuri, ILCB) and the graduate schools (nEURO\*AMU, AMSE), which have joined the AMU institutes with the aim of maintaining their activities. The AMU institute label has also been extended to include the IMERA Institute for Advanced Studies.

### Strategy of the hosting Institution

Research units (CRCM, C2VN, INP, ICR, MMG, MCT, CERIMED, IMBE) on the health campus are developing research programs focused on finding new therapeutic targets, innovative therapies and their vectorization, and biomarkers to lead to better managing patients with cancerous, cardiovascular, infectious, genetic and neurodegenerative diseases. A theme centered on innovative therapies with a chemistry-biology-computer science focus is emerging in several of them. These units wish to amplify the discovery of new chemical compounds used alone or coupled with cellular biotherapies or therapeutic antibody-based therapies. The recruited CPJ will have access to a chemistry infrastructure allowing the synthesis and characterization of new compounds for therapeutic use or vectorization. The recruited chemist, biologist or chemoinformatician must have 4 to 5 years of experience after their PhD and solid international and interdisciplinary experience in chemistry-biology and drug design. The successful candidate will conduct research at the highest international level in the field of the chemistry-biology-computer science interface in a stimulating environment.

### Summary of the scientific project

**Position Type:** 5-year fixed-term contract, leading to permanent position as a University Professor.

**Title of the Research Project:** Novel approaches in chemical biology and chemoinformatics for the design and delivery of therapeutic molecules.

**Target Profile:** The UMR/UMS units of the health campus wish to recruit a Professor with expertise in organic synthesis, biology, or chemoinformatics, ideally with recognized experience in chemical biology or drug design. The CPJ's project will be integrated into a unit capable of providing the necessary scientific and technological platforms and conceptual and experimental collaborations to design innovative molecules or optimize existing therapeutics through innovations in vectorization. The candidate will leverage the understanding of physiopathological mechanisms from the UMR/UMS teams to develop therapeutic strategies based on new chemical molecules or innovations in the vectorization of existing chemical or cellular therapies. This will be achieved through knowledge of target structures, functional in cellulo screenings and/or chemoinformatics using AI.

The CPJ's ambition should, if possible, incorporate societal or environmental concerns.

This position will allow the host unit to reaffirm its position in the development of innovative approaches for chemical biology research in France and to achieve a competitive international standing, also leveraging the Marseille Immunology Biocluster.

### Summary of the teaching project

**Training sectors concerned:** Health Engineering and Health Biology Masters.

**Educational objectives and supervision needs:** The health campus wishes to increase the attractiveness of its training programs in the field of chemistry-biology as part of its involvement in university institutes and other structuring actions on the site, improving the training-research link. The recruited person will contribute to theoretical, experimental, or applied teaching, in French and English, within the framework of the Health Engineering and Health Biology Masters and will be involved in the continuing and professional training of the health campus. The recruited person will carry out research-based teaching by supervising M1 and M2 interns and doctoral students.

The teaching volume is set at 42 hours of lectures or 64 hours of tutorials or practical work, or any equivalent combination, on average per year over the duration of the contract.

### Funding

CPJ funding (including the ANR package and candidate salary for 4 years)	420 k€
Complementary funding	50 k€
Total amount	470 k€

This budget includes the salary of the junior professor chair, i.e. 55k€/year, and 200k€ of ANR funding, 120k€ of which is dedicated to the financing of human resources (doctoral student, post-doctoral student, engineer, etc.). The Aix-Marseille site, through its AMIDEX foundation, supplements this funding with 50k€.

### Expected scientific production

- Publications in high-impact peer-reviewed journals
- Active participation in international conferences
- Participation in national and Aix-Marseille University's scientific public outreach activities (Science Festival, European Night of Researchers, European Heritage Days)
- Participation in activities related to institutions and the socio-economic world (public and private stakeholders, communities, associations, business sector, etc.)

### Open science / Citizen science

Aix-Marseille University plays a significant role in promoting open science, having established a charter dedicated to this approach. The selected candidate will fully adhere to this charter and actively participate in this initiative by ensuring that all her/his works are listed in the HAL database and the full text of the publications is uploaded. She/he will also prioritize open access journals for her/his publications and develop a data management plan as part of this approach.

### Indicators (for monitoring the progress of the project)

- Securing additional funding, including European funding and funding from the socio-economic world
- Recruitment of Masters and PhD students
- Publications and patents
- Contribution to the attractiveness of the site (students and collaborators outside AMU, etc.)
- Implementation of innovative teaching focused on its research area

## Selection procedure

### Conditions to be met to apply:

- hold a doctorate degree or a diploma whose equivalence is recognized, and to demonstrate a significant research experience in the topic of the chair of junior professor.

### Application procedures:

Application must be sent exclusively on line ODYSSEE:

### Calendar:

Opening of application: Mai 30<sup>th</sup> 2025, 10h AM, Paris time

Deadline for submitting application: September 1<sup>st</sup> 2025, 4h PM, Paris time

### Content of the file

The list of mandatory documents to be provided is defined by the decree of 22 February 2022. It is available on the ODYSSEE portal.

1. Application form entered online
2. Identity document with photograph
3. A document attesting to the possession of a doctorate, as provided for in article L.612-7 of the Education Code, or a diploma whose equivalence is recognized according to the procedure set out in article 5 of the Decree of December 17, 2021
4. Defense report of the doctoral thesis or, when relevant, of the diploma whose equivalence is recognized
5. Completed application form for a chair of junior professor (doc 5) (to be submitted in the section « titles and works » of the application ODYSSEE).
6. work, books, articles, achievements

Documents (**2; 3 and 4**) written in a foreign language in whole or in part must imperatively be translated into French. The candidate will attest in compliance on honour. Otherwise the file will be declared inadmissible.

**Any incomplete application will be declared inadmissible.**

### Recruitment procedures:

The evaluation will be held by a selection committee. The composition of the committee will be available on ODYSSEE website before the beginning of its work.

Only will be called to the interviews, candidates previously selected after evaluation of their file by the selection committee.

### Additional information

Candidates invited to the audition will have the opportunity to make a public presentation of their research work in front of the members of the units to which they can be assigned. This presentation can be done in person or by videoconference.

The presentation will last 30 minutes and will be followed by 30 minutes of discussion with the selection committee. It will include the following elements: the candidate's background, professional experience, research and teaching project

The organisation of the audition will be indicated on the invitation to the interview.

## Doc 5 : Candidature à une chaire de professeur junior (Application form for a chair of junior professor)

*Ce document suivra obligatoirement le plan indiqué ci-dessous. Il n'est toutefois pas obligatoire de remplir toutes les rubriques (conservez la numérotation des sections même si certaines d'entre elles restent vides). Il sera déposé dans la partie titre et travaux du dépôt des pièces dans l'application ODYSSEE. Une version word est disponible sur le site d'Aix-Marseille Université (<https://amubox.univ-amu.fr/s/7tNMscsxwTHmTLz>)*

*Do not modify the font and the layout, but you may suppress the comments. This document should follow the guidelines given below. However, filling all sections is not mandatory (adhere to the order of the sections below, even if some of them are non-applicable). It will be submitted in the section « titles and works » of the application ODYSSEE. A word version is available on the Aix-Marseille University website (<https://amubox.univ-amu.fr/s/7tNMscsxwTHmTLz>)*

### 1. Curriculum Vitae (max 2 pages)

#### 1.1. Informations personnelles (personnal information)

<b>Nom</b> (Last Name)	
<b>Prénom</b> (Fist name)	
<b>Nationalité</b> (nationality)	
<b>Date de naissance</b> (date of birth)	
<b>Diplôme de plus haut degré obtenu dans l'enseignement supérieur</b> (Highest degree obtained in higher education)	
<b>Email</b>	
<b>Téléphone portable</b> (phone number)	
<b>Adresse postale</b> (home address)	
<b>Adresse professionnelle</b> (business address)	

## 1.2. Expériences professionnelles (professional experience)

Année (year)	Poste (Position and status)	Organisation ou structure (institution)
Plus récente (most recent)		
...		
Plus ancienne (the oldest)		

## 1.3. Expertise scientifique (maximum 10 lignes) *Scientific expertise (maximum of 10 lines)*

## 1.4. Mots-clés / keywords (maximum 5)

## 1.5. Événements majeurs dans la carrière scientifique *(Major events in scientific career)*

Citer jusqu'à 5 faits marquants de votre carrière scientifique.

*(List up to 5 highlights from your scientific career)*

## 1.6. Relation au monde socio-économique *(Relationship to the socio-economic world)*

Contrats, membre de conseils, consulting, rôle d'expert, etc.  
*(Contracts, advisory members, consulting, expert role, etc.)*

## 1.7. Vulgarisation scientifique *(scientific dissemination)*

Citer les occasions/événements vous ayant permis de diffuser vos travaux auprès du grand public.

*(List the occasions/events that allowed you to disseminate your work to the general public)*

## 2. Activités de recherche *(Research activities)*

### 2.1. Description du parcours scientifique (maximum 1 page) *(Description of the scientific background)*

### 2.2. Projet scientifique en lien avec la chaire de professeur junior (maximum 3 pages)

*(Scientific project in connection with the chair of junior professor)*

**Contexte scientifique des travaux envisagés** *(Scientific context of the proposed work)*

2.2.1. *Description du projet scientifique* *(Scientific context of the proposed work)*

2.2.2. *Verrous scientifiques liés au projet* *(Scientific barriers related to the project)*

2.2.3. *Indicateurs de suivi du déroulement du projet* *(Indicators for monitoring the progress of the project)*

2.2.4. *Dissémination des travaux de recherche auprès du grand public*  
*(Dissemination of research work to the public)*

**3. Activités d'enseignement (4 pages maximum)**

*(Teaching activities – max 4 pages)*

**3.1. Expérience pédagogique dans l'enseignement supérieur (maximum 2 pages)**

*(Teaching experience in higher education – max 2 pages)*

**3.2. Projet pédagogique en lien avec la chaire de professeur junior au sein de l'établissement d'accueil (maximum 2 pages)**

*(Pedagogical project in relation to the chair of junior professor at the host institution –max 2 pages)*

**4. Liste exhaustive des contrats et des financements obtenus dans les activités de recherche**

*(Comprehensive list of contracts and funding obtained in research activities)*

Année <i>(year)</i>	Source (agence, collectivité, entreprise, ...) <i>Origin (agency, community, compagny...)</i>	Intitulé du projet <i>(project name)</i>	Nom du coordinateur <i>(Coordinator's name)</i>	Budget (€)	Votre rôle dans le projet <i>(your role in the project)</i>

**5. Liste des principales/principaux publications, ouvrages, brevets, communications orales, communications par affiche**

*(Comprehensive list of publications, books, patents, oral communications, poster presentations)*

**5.1. Principales productions scientifiques (Main scientific productions)**

Citer vos 5 productions scientifiques les plus significatives. Expliquer en quoi elles sont significatives (innovation, originalité, impact ...) et votre rôle dans ce travail.

*(Cite your 5 most significant scientific productions. Explain why they are significant (innovation, originality, impact ...) and your contribution to this work)*

**5.2. Synthèse (synthesis)**

Nombre de publications avec comité de lecture <i>(Number of peer-reviewed publications)</i>	
Nombre de publications autres (proceedings, actes de colloques, chapitre d'ouvrage, ...) <i>(Number of other publications (proceedings, acts of workshops, book chapters, ...))</i>	
Nombre de brevets <i>(Number of patents)</i>	
Nombre de communications orales <i>(Number of oral communications)</i>	
Nombre de communications par poster <i>(Number of papers per poster)</i>	
Nombre de séminaires invités <i>(Number of invited seminars)</i>	

**5.3. Articles publiés avec comité de lecture**

*(number of peer-reviewed articles)*

[1]. Titre de l'article, auteurs, Journal, Volume, pages, (année). Nombre de citations *(Title of article, authors, Journal, Volume, pages, (year). Number of citations)*

[2].

**5.4 Autres publications (proceedings, actes de colloques, chapitres d'ouvrages...)**

*Other publications (proceedings, acts of workshops, book chapters,...)*

[1]. Titre du proceeding, auteurs, Journal, Volume, pages, (année). Nombre de citations.

*(Title of proceeding, authors, Journal, Volume, pages, (year). Number of citations.)*

[2].

### **Brevets (Patents)**

Renseigner le tableau pour chaque brevet.

*(complete the table of each patent)*

<b>Nom</b> <i>(name)</i>	
<b>Inventeur(s):</b> <i>Inventor(s)</i>	
<b>Numéro de brevet</b> <i>(Patent number)</i>	

### **Communications orales (oral communications)**

[1]. Titre de la communication, nom de la conférence, acronyme de la conférence, date, ville, pays *(Title of the paper, name of the conference, conference acronym, date, city, country)* ;

[2].

### **Communications par affiche (poster communications)**

[1]. Titre de la communication, nom de la conférence, acronyme de la conférence, date, ville, pays *(Title of the paper, name of the conference, conference acronym, date, city, country)* ;

[2].

### **Séminaires invités (guest seminars)**

[1]. Titre du séminaire, structure d'invitation, personne invitant au séminaire, date du séminaire, ville, pays *(Title of the seminar, inviting structure, person inviting to the seminar, date of the seminar, city, country)* ;

[2].