

## TEMPLATE FOR ADVERTISING RESEARCH POSTS

based on indications given by par. 4.4.1 of the  
"Report of the Working Group of the Steering Group of Human Resources Management under the  
European Research Area on Open, Transparent and Merit-based Recruitment of Researchers"

**Recruiting Department/Research Unit: Department of Political Sciences, Communication and International Relations**

**Title:** Neural Rendering techniques for generation of 3D content in the fashion domain

**Offer description:**

The research activity concerns the study and development of neural rendering techniques for the automatic generation of 3D content in the fashion industry, with particular attention to virtual garments and artificially generated assets. The research will focus on models for the implicit representation of geometry and appearance (e.g. Neural Radiance Fields), on the analysis of the spatial, structural and perceptual consistency of 3D reconstructions, and on the detection of anomalies or artefacts. From a methodological point of view, the work emphasises aspects of mathematical modelling, non-linear optimisation, continuous learning and model generalisation. Quantitative metrics will be defined to support reliable and scalable moderation processes in digital fashion pipelines and virtual environments.

**Researcher career profile:**

- *R1 First Stage Researcher (up to the completion of PhD)*

For further details <https://euraxess.ec.europa.eu/europe/career-development/training-researchers/research-profiles-descriptors>

**Location:** Macerata, Italy

**Type of contract:**

- *temporary*

**Job status**

- *full time*

**Expected start date and duration of the contract: 12 (twelve) months. The exact start date will be provided after the selection process.**

**Annual gross salary:** 21.013,20 €

**Selection criteria: Master's degree in Physics**

**Preferential selection criteria:**

1. Solid mathematical background and mathematical modelling.
2. Knowledge of neural rendering techniques and 3D representations (NeRF, Gaussian Splatting).
3. Machine learning and deep learning skills.
4. Knowledge of computer vision and 3D vision.
5. Advanced Python programming skills.

**Application deadline:** 16/03/2026, 1 p.m.

**Full details are available at:** <https://www.unimc.it/it/ateneo/bandi-e-concorsi/finanziamenti-ricerca/bandi-assegni-ricerca>

**Enquiries can be made to** Ufficio Ricerca Scientifica e Dottorato – [ufficio.ricerca@unimc.it](mailto:ufficio.ricerca@unimc.it)

## **DISCLAIMERS**

- The University of Macerata has adopted an OTM-R (Open, Transparent and merit-based Recruitment) policy within the framework of its Human Resources Strategy for Researchers; see <https://www.unimc.it/it/ricerca/hrs4r/la-policy-otm-r-open-transparent-and-merit-based-recruitment-of-researchers>
- The University of Macerata pursues an equal opportunities and diversity policy as well. Among facilities, a kindergarten is available for university's employees. Specific facilities and services are also dedicated to employees with disabilities (transportation services, specific technologies for studying).