

UNITA recruits an

## Head of Development of the applications developed for the European University « UNITA Universitas Montium »

### **Context:**

UNITA brings together 12 comprehensive universities with different sizes and trajectories gathering 250.000 students and 21.000 staff. We are situated in rural, mountain, and cross-border regions across three European regions, in ecosystems sharing similar challenges and impacted by core-periphery dynamics. Together with our more than fifty associated partners and the newly established legal entity as full partner we will constitute a unique and powerful ecosystem.

Building on the achievements of the first phase we will bring our cooperation to the next level, contributing to the educational, scientific and cultural progress of our regions, fostering their sustainable development, strengthening the local innovation ecosystems and supporting their transition to a knowledge-based economy, whilst promoting European integration within and beyond them. All these developments will be supported by the creation of an inter-university Virtual Campus: a collaborative platform, giving a unique entry point to all the resources and all the services developed for supporting UNITA's development.

We intend to transform the way we cooperate, educate, do research, innovate, and reach out to society. Well within 10 years from now, our learners will be able to choose their personalised, multilingual and international study paths from a rich learning offer. Students, academic and administrative staff will benefit from seamless mobility opportunities across the alliance, including rural experiences. Our institutions will function as innovation incubators matching the ambitions of the European Innovation Agenda and the Skills Agenda.

More information about UNITA: <http://univ-unita.eu/>.

### **Placement:** Timișoara, Romania

The person will be recruited in the UNITA IT Department and will be located in Timișoara, Romania. The activities will be conducted within the scope of the UNITA European University.

### **1. MISSION**

Task 3.4 of the UNITA Project aims at joint actions to establish a user-friendly, interactive environment & information system that is accessible to students and staff, but also to lifelong learners and territorial actors.

A more specific aim of the task is to create a system that exchanges data in an easy-to-use manner across partners, with a focus on data interoperability. UNITA will use romance languages and English for courses, contents, and interfaces to be the more open and inclusive as possible. The task builds on the solid achievements of the pilot phase of UNITA and its Constellation projects Connect-UNITA and INNOUNITA, i.e. an analysis of the requirements from all actions and also the already in-place proof of concept of UNITA inter-university digital campus.

The digital campus will fulfil a central support role for all tasks, as its inter-connected multi-sites (real and virtual) will be the first entry point and main location of interaction, study and work for all alliance actors. The task provides the infrastructure, transparency and digital tools for other tasks to operate and notably voting tools to increase the democratic participation of the communities, catalogues and cartographies to contribute to the personalised international learning paths and seamless mobility, from registration to certification support tools, research hubs cartography and Open data, catalogue of shared infrastructure and knowledge, connected classrooms among others.

All the applications and services shall be developed and maintained through the UNITA IT Department.

The UNITA IT Department will be composed of: three IT specialists, the IT department coordinator, an IT Service Manager, and an IT Head of Development. The IT department coordinator will coordinate the team. Moreover, one IT engineer is recruited by each university of the UNITA alliance. Those IT engineers will be in charge of the interoperability of the IT local applications and databases with the UNITA digital tools when needed. They will also participate to the development of some applications, depending on their skills and competencies. The coordinator of the IT department will oversee the collective efforts of all IT personnel engaged in the technological advancements for UNITA.

The UNITA IT Department will aim to ensure the interoperability of data and applications offered jointly to academic communities in UNITA.

The activities currently carried out by the already existing departments in the universities will not be carried out by the newly created department. The joint department will have the goal of designing, developing, deployment and maintaining a digital ecosystem that ensures the coherence of the applications and services offered jointly and the interoperability of the existing information systems in each university.

The department will cover the following areas of activity:

- Software development and support for the use of UNITA Virtual Campus (UVC) by all members of the academic community (students, academic staff, administrative staff) and other relevant stakeholders.
- System orchestration and administration
- Networking
- Security and compliance (including data protection);

## **Head of Development Highlights**

### **Reporting to**

IT Department Coordinator

### **Line reports**

Development team members

### **Scope of role**

To lead and manage a team of software developers (provided by each alliance partner), supporting them in building UNITA Virtual Campus, Responsible for the quality and technical approach taken by team members, ensuring it is in-line with the UNITA strategy . Creating and maintaining a professional culture within the team.

## **2. ACTIVITIÉS:**

### ***Main activities:***

- Develops the architecture of the UNITA Virtual Campus
- Coordinates the development team
- Ensures scalability, flexibility and deployment of the new architecture
- Oversees the creation of the technical documentation for the tools developed
- Ensures the infrastructure management for the application deployment.
- Manages risks and ensures the effectiveness of the ICT infrastructure.
- Implements and maintains a designated part of an ICT operation ensuring that activities are conducted in accordance with organisational rules, processes and standards.
- Plans changes and implements them in accordance with organisational strategy.
- Defines, implements and manages services from conception to final delivery. Responsible for achieving optimal results, conforming to standards for quality, safety and sustainability and complying with defined scope, performance, costs, and schedule. Deploys agile practices where applicable.
- Designs, integrates and implements complex technical ICT solutions ensuring procedures and models for development are current and comply with common standards.
- To write clean and healthy structured, well documented code

- To build future-proof reusable core code libraries, which can be shared, in-order to drive further efficiencies throughout the team
- To deliver code which is well tested and consistently error free
- To design and build database schemas with integrity and scalability with data access layers that are optimised for performance and security
- Monitors new technology developments and applies if appropriate.
- Provides technological design leadership.
- Lead and/ or conduct system integration
- Ensure incorporation of security by design
- Develop and maintain a comprehensive record of usability requirements
- Resolve issues prior to and following testing
- Manages solution operation.
- Provides service delivery.

***Associated activities:***

- Take part in internal meetings of T3.4, when needed;
- Take part in UNITA meetings, regarding the development of the virtual campus (in English), when needed;
- Get involved in the professional networks linked to UNITA;

***Specificities:***

- Punctual travels in Italy, France, Portugal, Spain, Switzerland and Romania;
- Manage multiple contact persons representing all the partners and stakeholders;
- Punctual availability out of office hours and on weekends.

**3. COMPETENCES**

***Skills :***

- Strong background and experience in software engineering, as well as a solid understanding of the LMS systems and Moodle open source;
- Good technical lead skills;
- AI and Machine Learning knowledge;
- Back-end (mostly) and front-end technologies;
- Technical competences in : Kubernetes, Node.JS, OVHcloud , Phyton , MySQL,Cloud Services , HTML, PHP, JavaScript;
- Interoperability tools and methods;
- Data visualisation;
- Security, quality, maintenance and evolution standards;
- Head of development is also accountable for the quality and reliability of the software products that the teams deliver
- Develop web applications;
- Implement an agile approach;
- Write user documents and technical documents.
- Good level of English (B2 minimum) and if possible, another romance language (French, Italian, Spanish, Portuguese, Romanian);

***Soft skills :***

- Organisation and planification;
- Communication skills;
- Resourcefulness and a sense of initiative;
- Team work in an intercultural team;
- Time management;

- Responsiveness, thoroughness and responsibility;
- Writing skills in English;
- Adaptation and flexibility.

#### **4. EMPLOYMENT CONDITIONS**

- Period of the contract: Contract should start as soon as possible, with a duration by the end of the month October 2027
- Monthly gross salary: 45 000 gross salary per year (12 months), depending on experience and competencies;
- Holidays: 2,16 days per month (26 annual days + 32 hours of annual leave)
- Working time: 8 hours/day

#### **Recruitment process :**

To apply, send a resume and a cover letter via email to [unita@e-uvt.ro](mailto:unita@e-uvt.ro) by 9th of August, 2024.

If you have any questions related to the position, you can contact us at the following email: [unita@e-uvt.ro](mailto:unita@e-uvt.ro).

The interview will take place on 21st of August.