



BOOK 2026::::::

Internship opportunities for students in IT and sciences







About Us

We Transform Medical Ideas into Smart Innovations

SmartLab is the innovation and research hub of the Faculty of Medicine of Monastir, dedicated to bridging the gap between medicine, engineering, and artificial intelligence.

Our team of doctors, engineers, and students designs intelligent solutions for real-time patient monitoring, medical data management, and healthcare training. We combine research, technology, and creativity to shape the future of healthcare in Tunisia.

"Where medicine meets technology — and innovation becomes reality"



"Our Missions"

To design and develop innovative e-health platforms (telemedicine, e-learning, EMR).

To integrate artificial intelligence into medical and educational applications.

To promote collaboration between students, researchers, and healthcare professionals.

"Areas of "expertise"



- Web and mobile development (Odoo, Flutter, Laravel, React).
- 1 Artificial intelligence applied to healthcare.
- Medical data management and visualization.
- Cloud solutions and interoperability.

Internship Fields

Explore Opportunities in Digital Health

Al in Healthcare

O2 Telemedicine Platforms

Medical Data Integration



Internship Fields

Explore Opportunities in Digital Health







IoT Monitoring 04

App Development 05

Al Integration 06



Why Join? SmartLab





Dedicated Odoo Training

Receive hands-on **training** on Odoo development delivered by an experienced **Odoo expert.**

Access to Premium Tools

Gain insights from experts in medicine and technology.

Work with paid subscriptions we provide:

- Adobe Photoshop & Illustrator
- Gemini, Perplexity, Synthesia, VTS Editor, etc.









Real-World Problems

Tackle **real-life challenges** in digital health and AI.

Mentorship

Gain insights from experts in medicine and technology.

Collaboration

Work closely with hospitals and innovative startups.

Why Join? SmartLab









Internship Details

The internship lasts 3-12 months at SmartLab, targeting students in medicine, computer science, and biomedical engineering.





Application Process



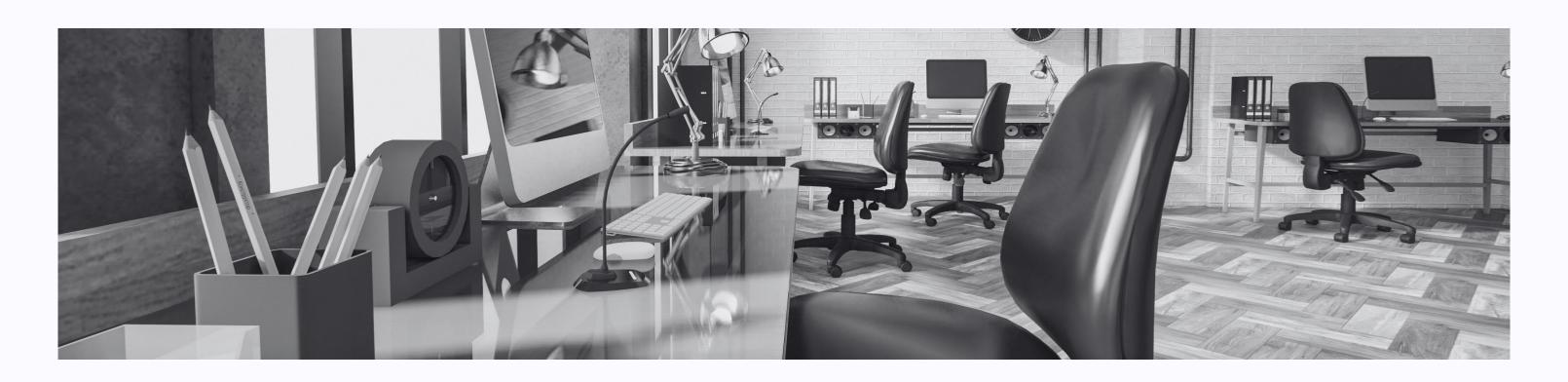


To apply, send your CV and a motivation letter to **smartlab.fmm@gmail.com**, mentioning your preferred project.

Applications are open until February 2026.

1. Submit your CV & _____ 2. Attend an _____ 3. Receive a confirmation email





Domaine 1

Health & Telemedicine

Project 1 Odoo Module for Medical Management (Integrated EMR)

Objective: Develop a complete module to manage medical records in Odoo.

Features:

- Patient file (history, allergies, treatments)
- Integrated appointment calendar
- Consultation and prescription history
- Automatic generation of medical reports (PDF)



Stack: Odoo (Python), PostgreSQL, XML, QWeb Reports

Telemedicine Module in Odoo



Objective: Integrate video consultation and secure messaging.

Features:

- Patient/doctor scheduling
- Video call link (Zoom, Jitsi, WebRTC)
- Conversation history
- Automatic notifications (email/SMS)







Advanced option: Al for consultation transcription or summarization

Health Monitoring & Al Alerts Module

Objective: Connect patient data (e.g., blood pressure, glucose) and detect anomalies via an AI microservice

Features:

- Monitoring dashboard
- Automatic alerts for abnormal values
- Al integration via Flask API



Stack: Odoo + FastAPI (AI) + Pandas + Plotly



Domaine 2

Medica Management 8 ERP

Odoo Module for Medical Center Management

Objective: Combine medical and administrative management.

Features:

- Patients, doctors, rooms, scheduling
- Inventory (pharmacy, equipment)
- Billing and insurance
- Analytical dashboard (visits, revenue, specialties)



</> Stack:Odoo (Python backend + XML frontend)



Advanced option: Integration with Power BI for analytics

Intelligent Appointment *Management System

Objective: Automatically schedule appointments based on specialty and availability.

Features:

- Dynamic resource-based scheduling (doctor/room)
- Filtering by specialty
- Automatic notifications



</> Stack:Odoo + scikit-learn (recommendation) + cron jobs



Medical Tests & Laboratory *Management Module

Objective: Manage medical tests and reports.

Features:

- Recording of tests (biochemistry, hematology, etc.)
- Automatic generation of PDF reports
- Integration with Odoo patients



Stack: Odoo + QWeb Reports + Python

Domaine 3

Alandano



Odoo + Al for No-Show Appointment Prediction

Objective: Detect patients at risk of missing their appointments

Data used: History, weather, visit frequency, waiting time.

Al model: Classification (Random Forest / XGBoost).

Features:

- Probability score of no-show
- Automatic SMS reminder



Stack:Odoo + scikit-learn + Flask API + Twilio



Medical Performance Dashboard

Objective: Help managers visualize performance metrics (consultation time, satisfaction, readmission rate).

Features:

- Custom dashboards
- Dynamic charts (Plotly / Chart.js)
- Automatic export to PDF/Excel



Stack: Odoo + PostgreSQL + Odoo BI + Chart.js



Al Marketing Assistant (Email Automation)

Objective: Develop an AI agent that automatically analyzes and responds to incoming platform emails to assist users, improve engagement, and reduce response time.

Features:

- NLP-based understanding of email intent
- Automatic draft generation and smart replies
- Prioritization and classification of messages
- Integration with Gmail / Odoo CRM / platform inbox
- Dashboard for review and analytics



Stack: Python (FastAPI) + OpenAI API + Odoo CRM + PostgreSQL + LangChain

Domaine 4

System Integrations



Odoo + IoT: Real-Time Medical Device Monitoring

Objective: Connect Odoo to medical IoT sensors.

Features:

- Data transfer (temperature, SpO2, etc.) to Odoo
- Real-time display and automatic alerts



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Stack:Odoo + MQTT + Raspberry Pi + Python



Medical CRM (Patient Relationship Management)

Objective: Adapt Odoo CRM for patient follow-up.

Features:

- Patient pipeline (prospect → follow-up → retention)
- Automatic email reminders
- Satisfaction analysis



Stack: Odoo CRM + Email Marketing + Automation







Thank You!

Together, we're shaping the future of digital health.

This is just the beginning — SmartLab Health Platform continues to innovate at the crossroads of Al, medicine, and technology.



Let's build smarter healthcare together

