



الجمهورية الجزائرية الديمقراطية الشعبية
وزارة التعليم العالي والبحث العلمي
جامعة سعيدة - د. مولاي طاهر
كلية علوم الطبيعة والحياة

Master's Degree in Bioinformatics



Where Biology Meets Data Science
Multidisciplinary | Applied | Future-Oriented

Start your journey into tomorrow's science.

Program highlights

- ✓ Multidisciplinary training
- ✓ Practical lab & coding focus
- ✓ Internship + research thesis
- ✓ AI & machine learning applications
- ✓ Strong regional and national employability



Contact responsible of the master program:

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Program curriculum

Year 1 – Foundations

- ✓ Genetics & Molecular Biology
- ✓ Intro to Bioinformatics & Databases
- ✓ Biostatistics & Mathematics
- ✓ Structural Bioinformatics
- ✓ Communication & Ethics
- ✓ Programming I (Python)
- ✓ Omics & Phylogenetics
- ✓ Bioinformatics Algorithms



Year 2 – Advanced Skills

- ✓ Molecular Modelling
- ✓ High Performance Computing
- ✓ Machine Learning & AI
- ✓ Systems Biology & Advanced Databases
- ✓ Entrepreneurship
- ✓ Final Semester: Internship + Thesis



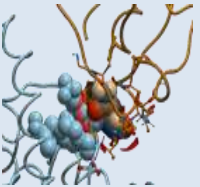
Admission & Eligibility Who Can Apply?

- ✓ Licence in Biology & Agronomy
- ✓ Licence in Chemistry
- ✓ Licence in Informatics or any related field.



What will you learn?

- ✓ Core foundations in biology, informatics & chemistry
- ✓ Mastery of bioinformatics tools
- ✓ Programming (Python, R) for biological data
- ✓ Database creation & querying
- ✓ Genomics, proteomics, structural biology
- ✓ Molecular modelling & drug design
- ✓ AI tools like AlphaFold
- ✓ Independent research capability
- ✓ Interdisciplinary teamwork
- ✓ Scientific communication & career readiness



Career Prospects

- ✓ Bioinformatics Scientist
- ✓ Drug Discovery Analyst
- ✓ AI Researcher in Life Sciences
- ✓ Biostatistician / Data Analyst
- ✓ Academic Researcher
- ✓ Agri-Bioinformatics Specialist



New this scholar year 2025-2026