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## Interview Report

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### Recommended Handbook Content Based on Interviews with Sector Representatives



## 1. Overview

This document included the implications deduced from two interviews with distinguished professionals in the field of biotechnology:

Alina Mihai, General Manager at J.S. Hamilton Romania, a leading laboratory and inspection company in Central and Eastern Europe.

Daniela Ilie, Senior Researcher and Scientific Director at the Romanian Academy for Agricultural and Forestry Sciences.

Their insights offered real-world perspectives on career development, leadership, ethics, and perseverance in the biotechnology sector, all of which can directly enrich the AGROBIOTECH+ handbook. Their experiences illustrated the diversity of career paths in biotechnology—ranging from business management to academic research—and highlight transferable skills, lifelong learning, and passion-driven work as key success factors.

## 2. Sector Developments & Skills Expectations

### Key points for inclusion:

- The agro-biotech sector requires a combination of scientific expertise and ethical awareness.
- *Mihai* emphasized the importance of continuous learning, adaptability, and ethical responsibility, especially since biotechnology impacts food security, environmental protection, and public health.
- *Ilie* outlined the technical core skills essential for new graduates:
  - Molecular biology (DNA/RNA extraction, PCR, gene analysis)
  - Animal and plant breeding (including in vitro fertilization and marker-assisted selection)
  - Microbiology, bioinformatics, and statistics
  - Tissue and cell culture techniques
- Collaboration and teamwork are crucial alongside technical mastery, as most projects require interdisciplinary and cooperative approaches.

### *Suggested handbook integration:*

A section titled “*Emerging Competencies in Agro-Biotechnology*” presenting the balance between technical, ethical, and interpersonal skills, supported by a skills matrix table distinguishing between *core laboratory skills* and *professional soft skills* (communication, teamwork, ethics).

### 3. Self-Assessment and Goal Setting

#### Relevant content:

- Both professionals demonstrate how career goals evolve through experience, mentorship, and self-reflection.
- *Mihai's* philosophy: success begins with confidence, passion, and persistence—“let your passion drive your efforts.” She applies lessons from her experience as a basketball player to professional leadership, focusing on strategy, teamwork, and maintaining excellence over time.
- *Ilie* focused her career on research passion rather than business, showing how aligning professional choices with intrinsic motivation leads to long-term satisfaction.
- The perception of success changes over time—from ambition and recognition to fulfillment and personal growth.

#### *Suggested handbook exercise:*

*Reflective Activity: “Defining Personal Success”* — Students identify their core motivations and write how their perception of success might evolve as they gain experience.

### 4. Networking, Job Search, and Interview Strategies

#### Key insights:

- *Ilie* recommended professional networking and collaboration through conferences, projects, and social media platforms (especially LinkedIn).
- *Mihai* stressed the value of common sense, adaptability, and eagerness to learn during recruitment, preferring candidates who are resourceful and dedicated rather than only academically strong.
- *Ilie's* experience highlights communication skills and emotional intelligence as critical for professional integration and teamwork.
- Both experts agreed that motivation and proactive learning distinguish successful candidates from others with similar qualifications.

#### *Suggested handbook inclusion:*

Add a short case box “*Building a Professional Network in Biotechnology*” showing how participation in research projects and maintaining respectful, supportive relationships can expand career opportunities.

### 5. Training and Professional Development

#### Points suitable for the handbook:

- Lifelong learning is a recurring theme across both interviews.

- *Mihai* advocates staying current with technological innovations and continuously developing professional knowledge to remain competitive.
- *Ilie* recommends maximizing institutional resources, volunteering for projects, and attending international training and capacity-building programs.
- Self-improvement and perseverance are essential. *Ilie*'s experience building a molecular biology laboratory through project funding demonstrates that dedication and initiative transform limitations into opportunities.

*Suggested handbook integration:*

A section titled “*Lifelong Learning and Resilience in Biotechnology Careers*” illustrating how continuous training, curiosity, and international experience contribute to professional advancement.

Add a diagram representing the *Cycle of Professional Growth: Learn → Apply → Reflect → Improve → Share*.

## 6. Career Advancement and Mentorship

### Relevant themes for integration:

- Mentorship and leadership play decisive roles in professional growth.
- *Ilie* attributes her success to the guidance of mentors, supportive work environments, and training opportunities.
- *Mihai* emphasizes leadership through inclusion, transforming difficult team members by offering growth opportunities and constructive feedback—up to the point where accountability must take over.
- Ethical leadership and a balanced work environment sustain long-term success.
- Decision-making and resilience are built through experience, reflection, and learning from mistakes.

*Suggested handbook section:*

“*The Role of Mentorship and Leadership in Biotechnology Careers*” — include short excerpts from *Mihai*'s and *Ilie*'s advice, accompanied by student reflection questions such as:

“Who has influenced your professional development the most?”

“What leadership qualities do you admire and wish to develop?”

## 7. Pedagogical Implications

### Integrating these interviews into the handbook will:

- Link theoretical modules with real professional experiences, illustrating how knowledge translates into practice.

- Reinforce career readiness by highlighting employability, ethical responsibility, and teamwork.
- Encourage reflective and experiential learning, aligned with the Project-Based Learning (PBL) methodology.
- Provide role models—successful professionals whose stories demonstrate that dedication, mentorship, and continuous development are key to achievement in agro-biotechnology.

## 8. Summary Table of Integration

Handbook Module	Recommended Additions	Educational Focus
1. Sector Developments & Skills Expectations	Technical & ethical competencies, teamwork	Scientific literacy & ethics
2. Self-Assessment & Goal Setting	Passion, confidence, evolving goals	Motivation & self-awareness
3. Networking & Interview Strategies	Communication, adaptability, networking	Employability skills
4. Training & Professional Development	Lifelong learning, perseverance, initiative	Continuous improvement
5. Career Advancement & Mentorship	Leadership, mentorship, ethics	Integrity & collaborative leadership